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Vol. CXIII.

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Retail (each)	- -	11d.	1/3	2/4	4/6

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Pepsodent Week- September 8th-15th



**Get the NEW
Pepsodent display
Send the coupon**

THE week September 8th—15th, as recently announced, has been selected for another Pepsodent Week, and already everything points to a repetition of the January Pepsodent Week success.

Have you asked for your display, thus expressing *your* intention of taking part in this effort?

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More Pepsodent will be sold during Pepsodent Week. Take the opportunity to secure *your* share of increased sales of this popular and widely advertised tooth-paste showing you a profit of 38%.

If you have not asked for the new Pepsodent display, make sure of getting one by sending the coupon NOW!

The Pepsodent Co.
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Please send me, carriage paid, the NEW PEPSODENT WINDOW DISPLAY to show during Pepsodent Week.

Name.....

Address.....

T.7

7/6

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DURING
SEPTEMBER
ONLY

6 X 1/3 BOTTLES
WITH ORDERS
FOR
ONE GROSS

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THE
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WINTER REMEDY



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Three-ply wood Figure
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with orders for one gross

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ON RETURNS

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Display Material

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Packed in 21 different styles

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	8 oz.	12 oz.	16 oz.	20 oz.
	8/-	11/-	12/6	14/6

In 6 dozen lots	7/9	10/9	12/-	14/-
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In gross lots -	7/6	10/3	11/6	13/6
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Stamped Styles

extra - -	3/-	6/-	6/-	6/-
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	3/-	6/-	6/-	6/-
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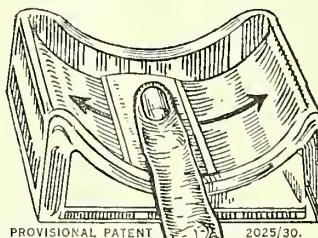
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Just ONE Blade
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for Hundreds of Shaves

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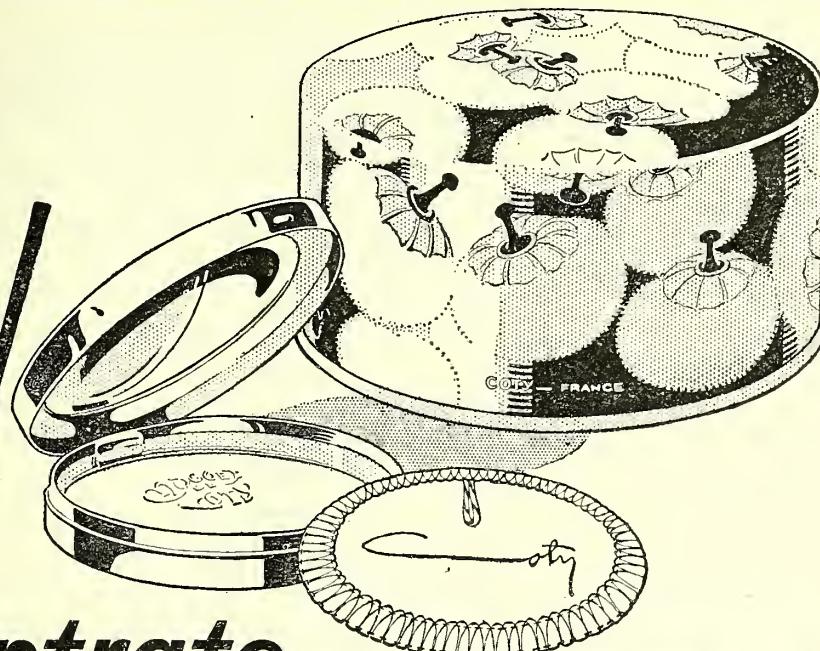
TRADE PRICES :

12 dozen lots	-	-	7/6	per dozen
6 "	"	-	7/9	"
3 "	"	-	8/-	"

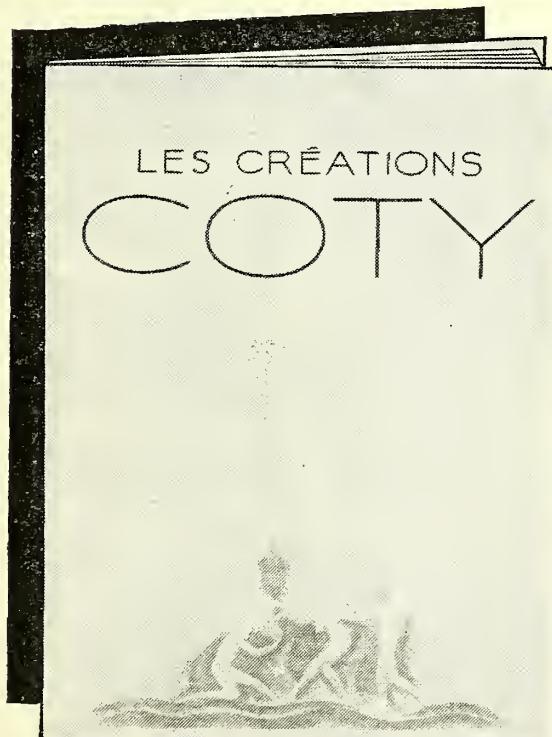
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sells
itself!**



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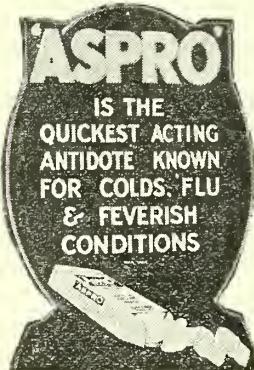
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"British to the Core" New Series Display Features.

**Send COUPON below for this New
'ASPRO' Window Display**



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By featuring 'ASPRO' Displays in your window you link up your store to the largest Medicine Publicity Campaign in the World

Following the success of our recent Man-Nurse and Child Display for Chemists and the many letters of appreciation received we have pleasure in announcing a new 3-piece series now ready for distribution. These productions combine suggestion and reasons why customers should enter your store to purchase 'ASPRO.' The sooner you co-operate by featuring 'ASPRO' Displays—the greater is your opportunity of benefiting by the consumer demand created by our huge advertising campaign. Be first in the field by showing this new 3-Piece Display. Simply fill in name and address and post to Gollin & Co. Pty. Ltd., "Aspro" Dept., Slough, Bucks. The displays will be despatched to you promptly.

17% Extra through buying 'ASPRO' on Bonus Terms.

The 'ASPRO' bonus on unstamped 'ASPRO' is as follows:—On a one gross order for 10's the bonus is one dozen packets; on half-gross order, $\frac{1}{2}$ dozen packets. Half-gross 10's is the minimum order accepted for Bonus purposes. On a gross order for 27's the bonus is 2 dozen packets, on a half-gross order 1 dozen packets, and on a quarter-gross order $\frac{1}{2}$ dozen packets. A quarter-gross order is the minimum quantity. There is no bonus on 5's or 60's.

The conditions are that the Chemist who buys on these terms undertakes to display 'ASPRO' Advertising matter in his shop window for 14 days, and sell at advertised prices. As 'ASPRO' is so extensively

advertised, this action will not only bring customers into the Chemist's shop to purchase 'ASPRO,' but should enable the chemist's staff to make other sales to these customers. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices. For Bonuses it is not necessary to buy both sizes at the same time, i.e., single lots 6 dozen 10's or 3 dozen 27's will qualify the Chemist.

You order as follows:—We do not sell direct to the Chemist. All our business goes through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler, so that we may forward the order on and the Bonus will be supplied direct by us.

Ordinary prices for unstamped
'ASPRO' are as follows:—

3d. size (containing 5 tablets)	2/3 doz
6d. , (containing 10 tablets)	4/6 "
1/3 , (containing 27 tablets)	11/6 "
2/6 , (containing 60 tablets)	21/- "

Less 2½% 30 days.

NOTE.—The 1/3 size contains two extra tablets. 2/6 size ten extra tablets.



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*COUPON for New 3-Piece 'ASPRO' Display.
Gollin & Co. Pty. Ltd. ('Aspro' Dept.), Slough, Bucks.
Please send me above displays.
Name
Address
ABD*

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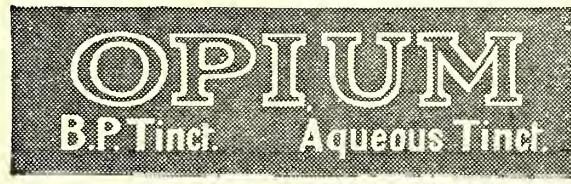
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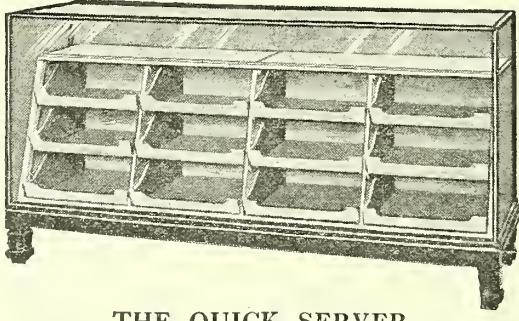
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*

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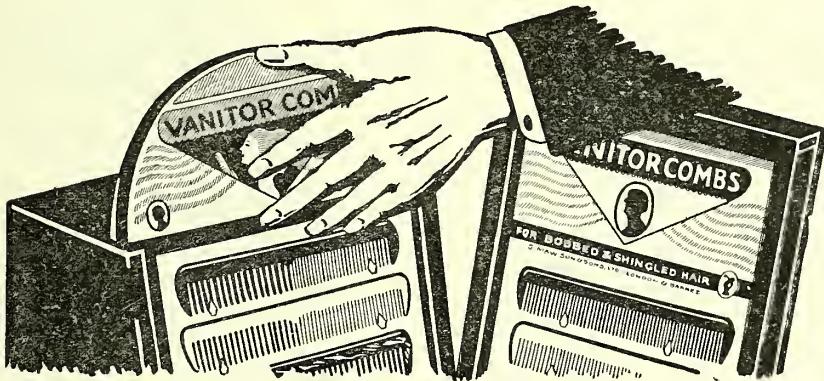
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Maw's Page



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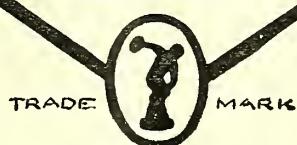
For remember that "Vanitor" Combs are your own. No outside trader can sell them for the simple reason that he cannot buy them—we only supply qualified pharmacists.

And the public will come to you for "Vanitor" Combs, rather than buy other combs elsewhere, because they want the advantages which "Vanitor" Combs offer—"Vanitor" quality, "Vanitor" hygienic packing, "Vanitor" variety of choice, "Vanitor" reasonable prices.

You, too, will want to sell "Vanitor" Combs for the advantages they offer you—"Vanitor" substantial profits, "Vanitor" protected stocks, "Vanitor" prestige, and, above all, "Vanitor" exclusive supply.

*Keep the "Vanitor" Display
Cases in sight on your counter.*

S. Maw, Son & Sons, Ltd.,
Aldersgate St. London,
and Barnet.



SELL U.P. ENLARGEMENTS

These 3 cards
sent Post Free
on receipt of
P.O. for

1/6

A PORTROGRAPH
IS A STUDY FINISHED PORTRAIT
MADE FROM A POSITION OF
ONE OR MORE NEGATIVES
NOT DRAWN OR PAINTED
2/- each. 3 for 4/-

Studio Finished Portraits from Amateurs'
Negatives, 2/- each. 3 from same neg., 4/-

TINTOGRAPHS^{REGD.}
WE CAN MAKE COLOURED PRINTS & ENLARGEMENTS
SIMILAR TO THESE SPECIMENS FROM ANY AVERAGE
NEGATIVE.

PRICES
TINTOGRAPH PRINTS
VPK. 2BS 14/- 6d
3A - 6d
1/6

PRICES
TINTOGRAPH ENLARGEMENTS
IN POSTAGE PAID ENVELOPES
Postcard - 1/6
Giant - 2/-
Size of - 3/-

Coloured Prints and Enlargements made
from Amateurs' Negatives from 1/6 each.

POSTCARD ENLARGEMENTS

SUPPLIED IN FOLDERS

3 FROM THE SAME NEGATIVE 1/-
6 - 1/6

SINGLE CARDS 6d EACH



We employ experienced finishers and retouchers for making our Enlargements. It makes all the difference. Send a trial order and judge for yourself.

Dealers from all parts of the kingdom send us their work. If you do, you will increase your business.

Every description of photographic operating work undertaken.

Etchings, Statuettes, Reproductions in Oils, Water Colours, Lantern Slides, etc.
Please write for Price List giving full particulars.

UNITED PHOTOGRAPHERS LTD.

384 Chester Road
MANCHESTER

72 Miles Street
Dingle, LIVERPOOL

Crown Street
LEEDS

Here is that new Winter line for which you've been looking !

A distinctive white lozenge of pleasing flavour with a most efficacious formula. The packing is neat and dignified—slide boxes of a very pretty blue and white design—which, together with the display outer, will certainly attract immediate attention. This is an unusually good line and will prove to be a "Best Seller."

"DISCAPINES,"

SHOW BIG PROFIT to the Chemist.

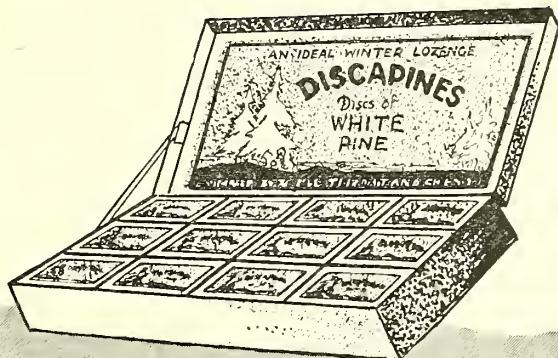
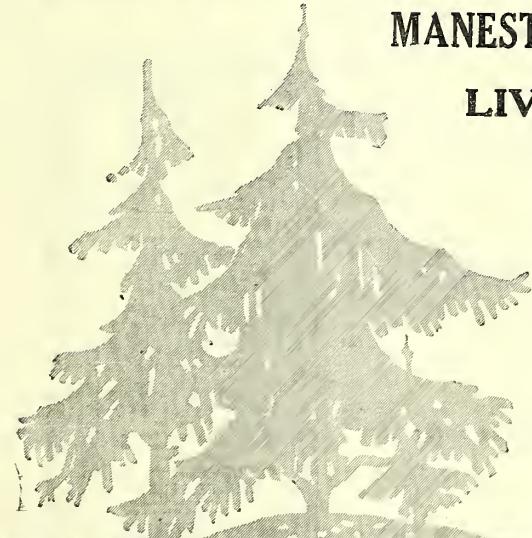
Minimum
Retail Price
 $7\frac{1}{2}$ d. per box.

2 doz. in display box 4/6 doz.
6 doz. in 3 display boxes 4/3 doz.
12 doz. in 6 display boxes 4/- doz.

Send a trial
order and see
how fast they
sell.

12-dozen lots Carriage Paid.

THOMPSON & CAPPER WHOLESALE LTD.
MANESTY BUILDINGS, COLLEGE LANE,
LIVERPOOL

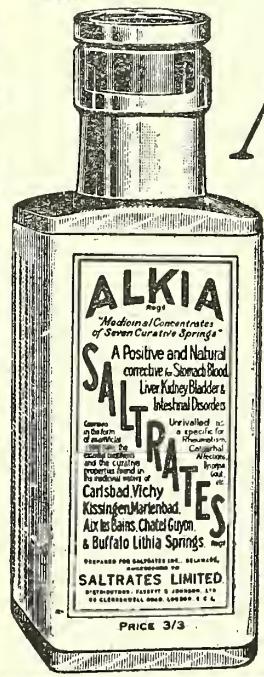


AN IDEAL WINTER LOZENGE

Compounded UP TO A STANDARD

(The Highest Possible)

Never DOWN TO A PRICE



these lines are as near perfection in their respective fields as it is humanly possible to get them, regardless of cost or selling price. Your customer requires no persuasion after he has once given our preparations a trial. He then KNOWS they are just what he wants and is interested in no others. In other words—after you make the first sale these goods go on selling themselves.

Alkia Saltrates

The most efficient Saline on the market and the best value for the money. Pleasant tasting and always satisfies the user. Widely advertised for Rheumatism, Gout, Sciatica, or any Liver, Kidney, Stomach, Intestinal or Blood Disorders, Catarhal Affections, etc.

Sells at 3/3 (P.A.T.A.).

Reudel Bath Saltrates

The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath—especially recommended for Corns and all Foot Troubles, Rheumatic Pains, etc.

Sells at 1/6 and 2/6 (P.A.T.A.).

YOU CAN STOCK THESE RAPIDLY MOVING LINES ON GUARANTEED SALE TERMS

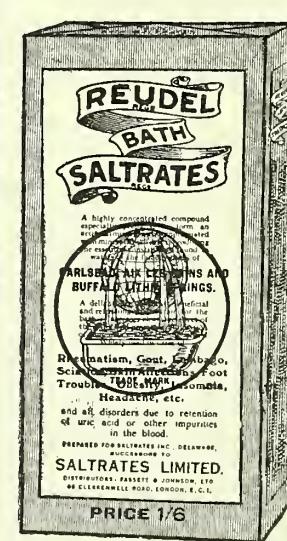
Carriage Paid in Free Cases in United Kingdom on orders for three dozen, which may be assorted.

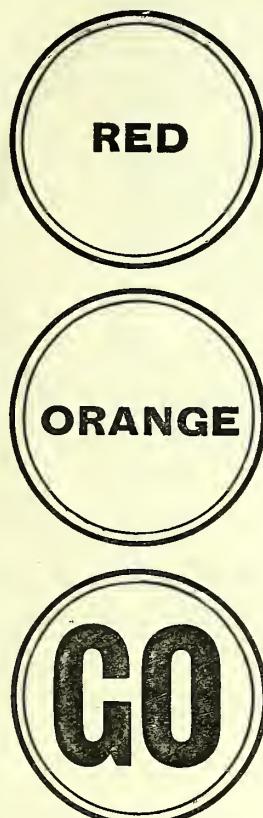
Showcards of strong selling power sent free on request.

Write for our Special Terms for Window Display.

DISTRIBUTORS FOR GREAT BRITAIN:—

FASSETT & JOHNSON, Ltd., 86 Clerkenwell Road, London, E.C.1
Australasia—36-40 Chalmers St., SYDNEY, N.S.W. South Africa—15 Bree St., CAPETOWN.





A CLEAR ROAD
TO PACKED SPECIALITY PROFIT
The "Signal Success" of
AYRTON'S
"H.F."
TOILET SERIES

at a popular price should induce you to make a composite display of the series including the new addition

**"H.F." BAY LEAF
BRILLIANTINE**

The sweet, natural, aromatic freshness of the Bay Leaves adds an extra charm which is absent from ordinary Brilliantine.

A separate showcard for each item. The finest current counter speciality series in Pharmacy.

Delightfully Presented. :: Great Value.



In patent sprinkler bottles with fine gilt canopy caps, screwing direct on to the bottle. Tastefully labelled and wrapped in cellophane.

"H.F." BRILLIANTINE	Elegant and Refined
"H.F." VIOLET OIL	An Aristocrat
"H.F." TOILET PARAFFIN	Delightfully Perfumed
"H.F." BAY LEAF BRILLIANTINE	Tonic and Charming

1 oz.	2 oz.	4 oz.
4/- per	6/- doz.	8/-

Assorted sample dozen post free to any Trading Chemist.

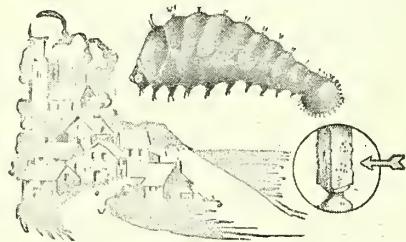
AYRTON'S of LIVERPOOL

"BEETOKIL"

for
**WORMS &
DRY ROT**

in
**furniture and
all wood-work**

A preventive of damage by the common furniture beetle which is harboured by nine out of ten houses to-day.



Here is something new which will interest your customers and make extra turnover for you. "Beetokil" is superior to other solutions because it will not stain or hurt polish and is non-poisonous.

Retail 2/- per tin of 6 to 7 ozs.
Trade prices, 1 doz. 14/6. 3 doz.
14/- doz.

Also supplied in bulk.

1 gallon (tins free) 15/-

$\frac{1}{2}$ gallon (tins free) 8/-

Carriage paid on all orders for "Canda" specialities of £3 and upwards.



REGD TRADE MARK

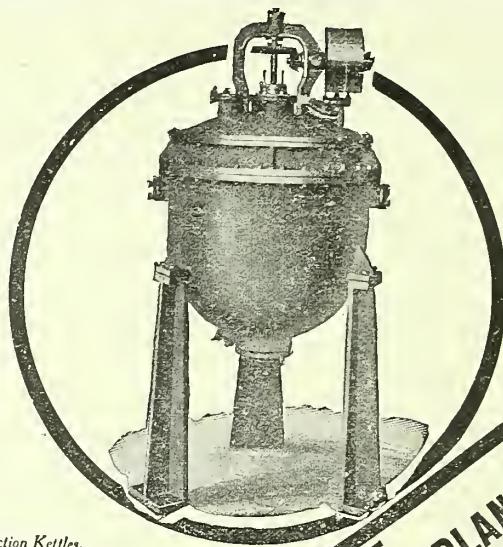
A REMINDER

Include in your order a supply of the original and very successful "Pen" Brand series—Iodine "Pen," Cuticle "Pen," Peroxide "Pen," Corn Cure "Pen," Midge "Pen," etc.

Beware of Imitations.

CLAY & ABRAHAM LTD.
Manufacturing Chemists, LIVERPOOL.

Export Agents: Wm. ALFRED JONES, Ltd., West India House, Maryland St., Liverpool.



Reaction Kettles,
Distilling Apparatus,
Evaporators,
Jacketed Kettles,
Jacketed Tilting Kettles,
Enamelled Tanks,
Enamelled Containers.

**ACID PROOF
ENAMELLED CHEMICAL PLANT**

DANTO-ROGEAT & CO., LYONS, France
Write for particulars to
H. SLOOG, 45 Great Marlborough
Street, Regent, London, W.1
Telephone: Ossington 2460.
Telex: Ossington, London.

We stock **DECORATED TINS** for :—

Ointments —
Brilliantine
Health Salts

Kindly write for free samples and prices.

THE CALDICOT TIN STAMPING WORKS LTD.
CALDICOT, Nr. CHEPSTOW, Mon.

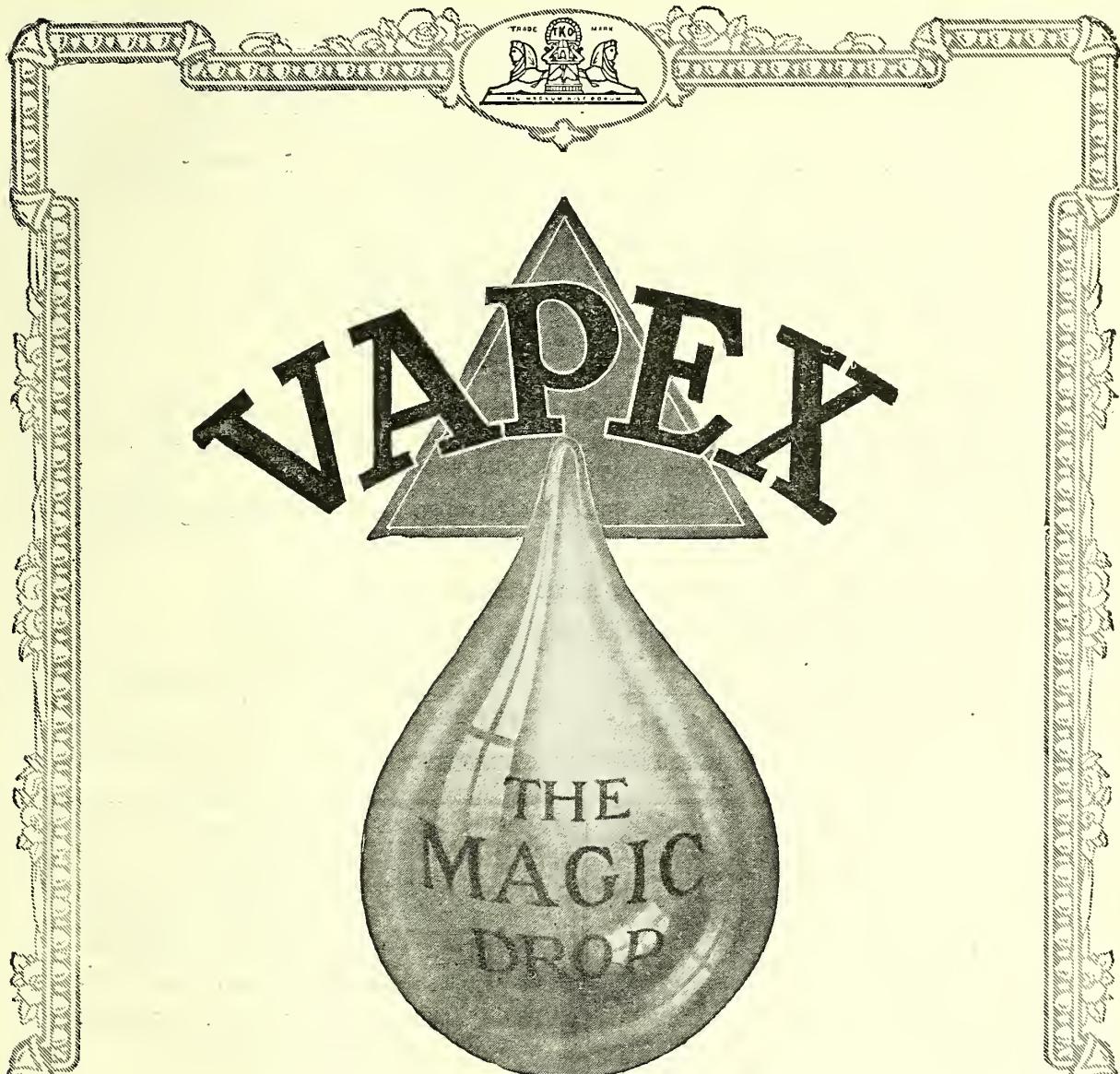
NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

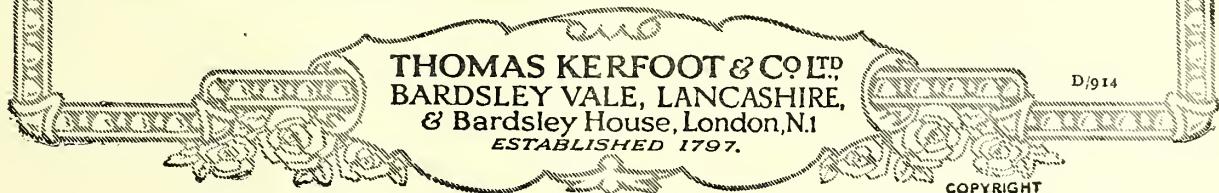
OSCAR SCRUTON & CO., YORK



Special Window Display Terms Ready!

Now is the time to re-order a good supply of "Vapex" to be ready for the Autumn demand. Please write for full particulars of the new window display and special terms.

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Liverpool



Creating a

DEMAND

for

"Junofloris"

TOILET AIDS!

Thousands of Advertisements Every Day !

WE are creating a demand for our "Junofloris" range of Toilet Aids, with new additions, amongst all purchasers of "HARLENE" Preparations by means of the Literature packed with

all our other goods. Thousands of *Satisfied* "Harlene" enthusiasts read about them every day—each Customer for *any* "Harlene" Product is also a potential Customer for "Junofloris" Toilet Aids.

Popular Prices — Good Profits

The profit is very generous and the series comprises :—

"JUNOFLORIS"		Prices—Retail
Spring Breath Tablets	7½d.
" "	..	1½
" "	..	3/-
" " Dentifrice	7½d.	
" "	..	1½

"JUNOFLORIS"		Prices—Retail
Effervescent Mouth Wash	Tablets ..	7½d.
" "	..	1½
Skin and Complexion Cream	..	1/3
Vanishing Cream	1/3

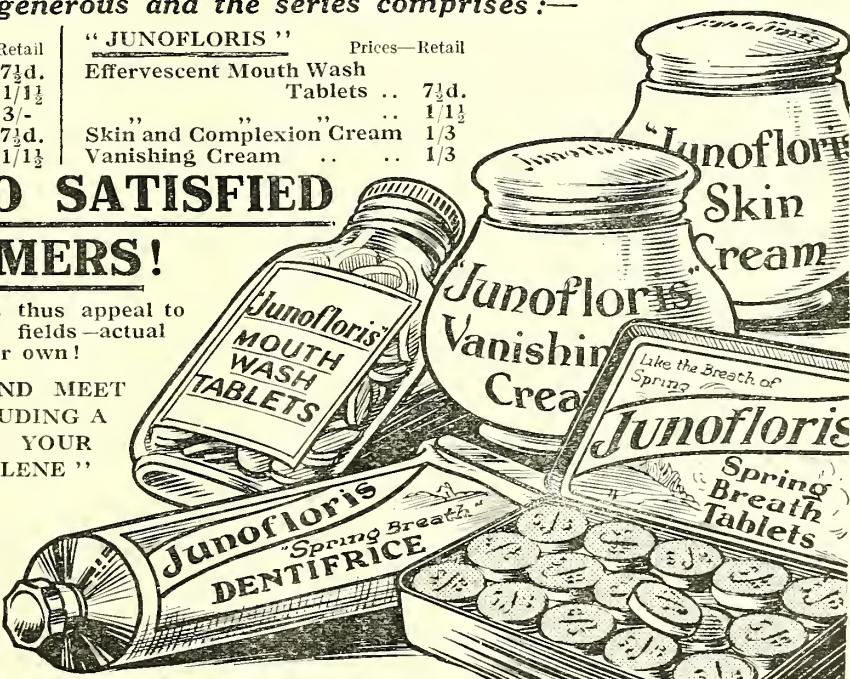
SELLING TO SATISFIED

CUSTOMERS !

"Junofloris" Toilet Aids thus appeal to the most fruitful of all fields—actual satisfied Customers of your own !

WRITE FOR TERMS AND MEET THE DEMAND BY INCLUDING A SMALL QUANTITY IN YOUR NEXT ORDER FOR "HARLENE" PREPARATIONS.

Edwards Harlene Ltd.
20/26 Lamb's Conduit St.,
LONDON W.C.I



===== H.B.T. =====

ASEPTIC TOILET
— AND —
ASEPTIC SHAVING **SOAPS**

Made with the Expressed Juices of Living Plants

THE SOAP WITH NO SOAPY TASTE,
and the most cleansing, refreshing, and healthful
soap that has ever been offered to the public

***IF YOU WANT TO SELL
— A SOAP THAT —
WON'T LET YOU DOWN***
SELL H.B.T.

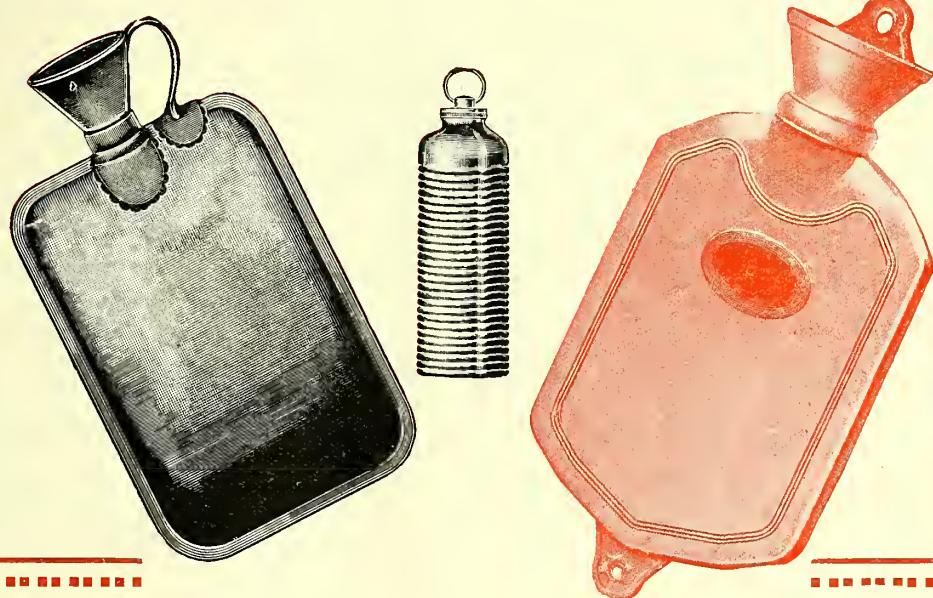
H.B.T. Aseptic Toilet Soap **9d.** 3-Tab. Boxes **2/3**
H.B.T. Aseptic Shaving Soap **1/-** Terms **33 $\frac{1}{3}$ %**

Of all Wholesale Houses or direct from

**HUNTER BEATTIE, Monteith Row, Glasgow, S.E.
B.C.M./H.B.T.**

NOTE.—Future H.B.T. Advertisements will henceforth appear on the Inside Back Cover
of the *C. and D.* in the second issue of each month.

HOT WATER BOTTLES



INDIA RUBBER

BEST BRITISH MAKE

GREY	RED	
Per doz.	Size	Per doz.
36/-	10×8	39/-
39/-	12×8	42/-
46/-	12×10	49/-

COVERS FOR ABOVE

10×8 12×8 12×10

Velour, per doz. 10/6 12/6 14/6

Fleecy, per doz. 6/- 7/- 8/6

Colours for Velour Covers—

GREY	PALE GREEN	PINK
LEMON	PALE BLUE	ROSE
MAUVE	ROYAL BLUE	SCARLET
	SAXE BLUE	

Colours for Fleecy Covers—

PALE BLUE	GREY
SAXE BLUE	PINK

3 dozen assorted, less 2½%.

MOULDED RUBBER

BEST BRITISH MAKE

Each in Envelope
Cherry Red or Marbled Colours

Size 12×8 - - - Per doz. 27/-

COVERS FOR ABOVE

Velour, assorted colours, per doz. 10/6

ALUMINIUM

Round, Corrugated - Per doz. 13/6

COVERS FOR ABOVE

Velour, assorted colours, per doz. 12/-

6 dozen assorted, less 5%.

BUTLER & CRISPE

J. H. CRISPE

L. H. CRISPE

R. P. GOWER

Cables and Marconigrams : Telephone : Telegraphic Address :
"ALLUWANT, LONDON." CLERKENWELL 5904 (Private Branch Exchange). "ALLUWANT, SMITH, LONDON."

IMPORTERS, EXPORTERS & DISTRIBUTORS

English and Foreign Proprietary Medicines, Perfumery, Toilet Goods, Druggists' Sundries

80-82 CLERKENWELL ROAD, LONDON, E.C.1

Are you showing

**the line
with a big following?**

The reliable "W.J. Rendell's Soluble Pessaries. Set out in
The Wife", "Husband & Friend", "Son & Daughter", "Brother & Sister", "Daughter & Son", "Mother & Child", "Grandmother & Grandchild", "Pet", "etc." Be sure and look for the Trade Mark on the labels to prevent disappointment.

Trade Mark
All trading rights in reserve *W.J. Rendell*

There is no other product for the purpose that has the following of such a large and worth-while section of the public as RENDELL'S. And this following is growing every day.

When they say: "A box of Rendell's, please," there is nothing else that will satisfy them. They know the reliability and all-round satisfaction for which this product stands.

To the chemist who displays Rendell's they offer their permanent custom, not only for Rendell's, but for every line of toilet and medicinal goods.

An Offer!

We are always happy to arrange special window displays, and welcome enquiries for them. Send for details NOW, also for specimen literature.

RENDELL'S SOLUBLE QUININE PESSARIES.

A P.A.T.A. line that is obtainable through every wholesale house in the country. Enjoys the continued recommendation of a large body of medical practitioners.

W.J. RENDELL LTD., 15, CHADWELL ST, LONDON. E.C.I.

MARKETING in the BRITISH EMPIRE



HEAD OFFICE : 86 Clerkenwell Road.

Fassett & Johnson Ltd. specialise in the Marketing of Proprietaries and Branded Goods, Pharmaceutical Preparations, Toilet Requisites.

Every Branch directed by capable and experienced Managers.

A large outdoor sales force.

A thorough knowledge of the markets of territories covered.

Ample warehouse facilities in all the large centres.

Manufacturing facilities available in Australia.

Fassett & Johnson Ltd. offer a complete Marketing, Selling and Distributing Organisation of many years' reputation and standing in

**GREAT
BRITAIN,
AUSTRALIA,
NEW
ZEALAND,
SOUTH
AFRICA.**



36-40 Chalmers Street, SYDNEY.

FASSETT & JOHNSON LTD.

86, CLERKENWELL ROAD, LONDON, E.C.1.

AUSTRALIA :
36-40 Chalmers St., Sydney, N.S.W.

NEW ZEALAND :
Levy Building, Manners St., Wellington,

SOUTH AFRICA :
15 Bree St., Cape Town.

Why Pharmal is better!



1. The Pharmal Moulded Bottle is made from the finest quality rubber of extremely high tensile strength.
2. It is reinforced. Every square inch is strengthened with a rib of rubber, so preventing sagging when full.
3. The sides are flat and soled, giving greater strength where wear and usage are likely to damage the bottle.
4. A wide sensible funnel allows hot water immediate entrance; easy filling and no risk of scalding. Guarantee seal attached to every bottle. Available in Red, Green, Blue, Pink, also Red and Blue Marble, Blue and Green Marble, Green and Red Marble and Jazz.

Obtainable through
all leading
Wholesale Houses

Pharmal

HOT WATER BOTTLES

The Leyland & Birmingham Rubber Co., Ltd.
Grand Buildings, Trafalgar Square, London, W.C.2

Factories—Leyland, Glasgow, Mitcham, Preston, Dublin.

FOR TOILET PREPARATIONS OF DISTINCTION

use

STAFFALLENS ALMOND OIL

Sweet True
Expressed in England

COLD-PRESSED from the finest selected nuts, this product is without rival in the markets of the world.

OF refined consistency and incomparable blandness, with an acid value well below the B.P. requirement, it confers distinction and elegance upon the products into which it is incorporated.

FOR THE BEST RESULTS

ALWAYS USE A STAFFALLENS PRODUCT


STAFFORD ALLEN & SONS, LTD.

Manufacturing Chemists and Essential Oil Distillers

(ESTABLISHED 1833)

Cowper Street

::

London, E.C.2

At Competitive Prices

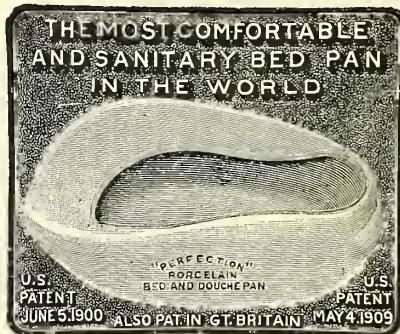
We carry a comprehensive stock of Druggists' and Surgical Sundries, superior in quality. Before buying be sure to compare our prices.



Whirling Spray, 39/- per dozen.



Injection Syringes, various kinds and sizes.

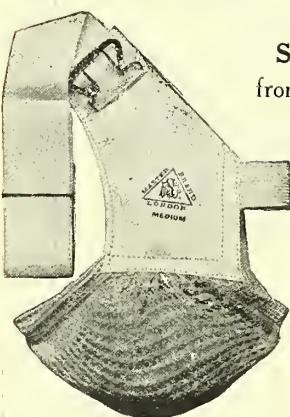


THE MOST COMFORTABLE
AND SANITARY BED PAN
IN THE WORLD
"PERFECTION"
PORCELAIN
BED AND DOUCHE PAN
U.S.
PATENT
JUNE 5, 1900
ALSO PAT. IN G.T. BRITAIN MAY 4, 1909
U.S.
PATENT

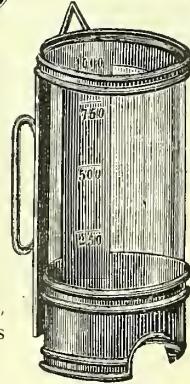


Enemas from 20/- to 59/- per dozen.

Perfection Bed Pans.
Small 6/-, Medium 7/-,
Large 8/- each.



Suspensory Bandages
from 8/6 to 24/- per dozen.



Douche Cans in Bronze,
White Frame and Glass
Vessel.
Enamel and Aluminium.



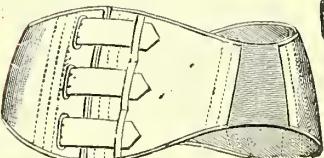
Nasal Syringes I.R. with
Vulc. Mount 7/6 per doz.



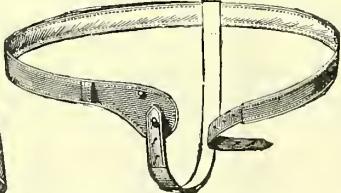
Urethral Glass Syringes, sizes from $\frac{1}{4}$ oz. to 2 oz.



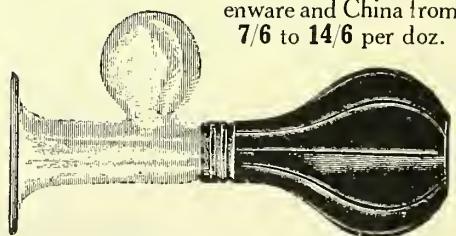
Feeding Cups, Earth-
enware and China from
7/6 to 14/6 per doz.



Gents' Body Belts.
3 buckle 45/- per dozen.
2 buckle 36/- per dozen.



Single Spring Truss.
In many styles and
qualities.



Breast Relievers from 16/- to 25/6
per dozen.

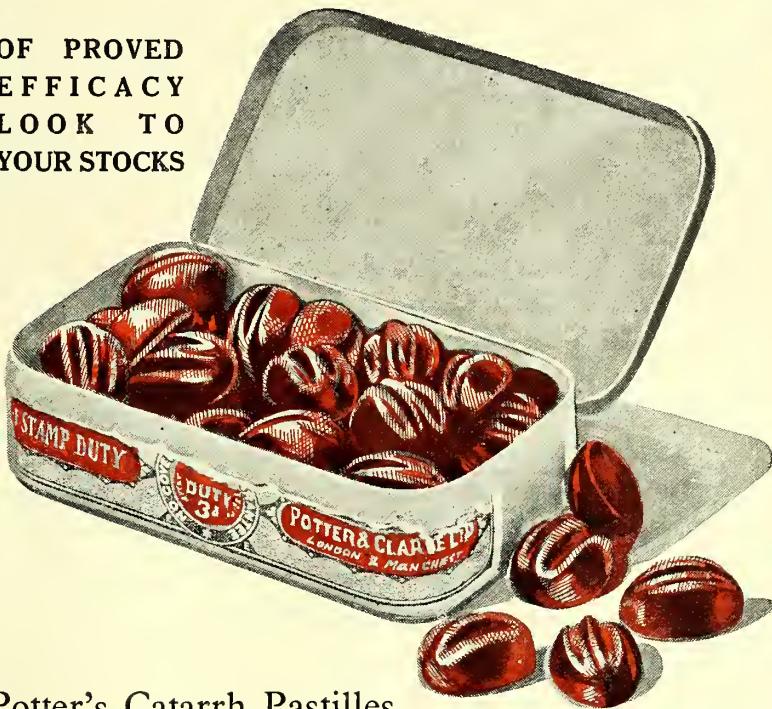
HIRST BROOKE & HIRST LTD.

MILGARTE MILLETT FEEDS



POTTER'S CATARRH PASTILLES

OF PROVED
EFFICACY
LOOK TO
YOUR STOCKS



Potter's Catarrh Pastilles
are of outstanding merit, and the public confirm
this statement. There is good business and
profit for you in this line

P.A.T.A. 1/3. Per Doz. 11/- In Boxes of $\frac{1}{2}$ dozens

POTTER & CLARKE LTD.

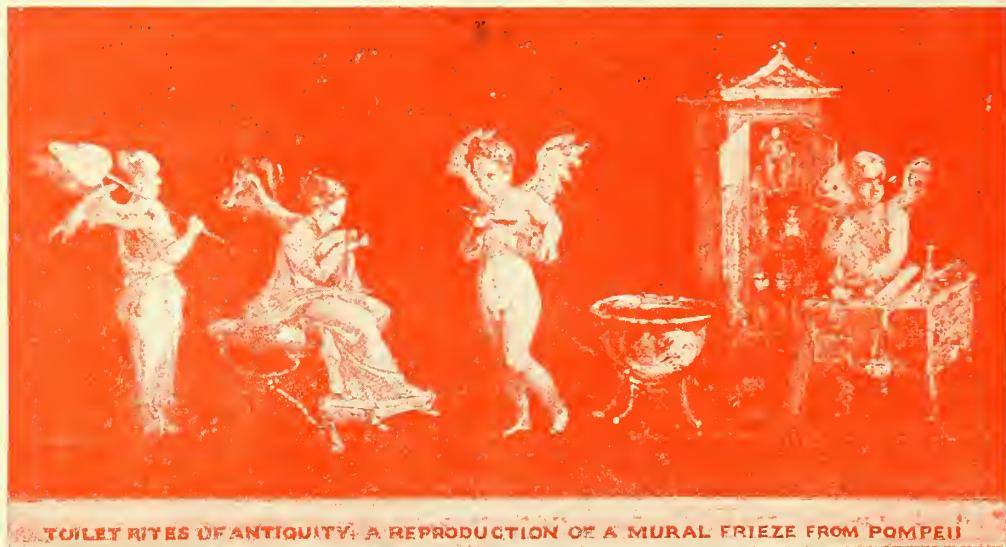
60-64 ARTILLERY LANE

LONDON, E.1

MANCHESTER: 24 LUNA ST., GT. ANCOATS

Phones: Bishopsgate 4761 (5 lines) Grams: Horehound, 'Phone, London

STIMULATING CHRISTMAS TRADE



TOILET RITES OF ANTIQUITY: A REPRODUCTION OF A MURAL FRIEZE FROM POMPEII

JUST at this time of year wholesale and retail buyers at Home and Overseas are looking out for novelties, and particularly for attractive lines in perfumery, toilet soaps, boudoir accessories in silver-ware and other fancy articles of various kinds.

These are especially suited for stimulating business during the festive season, and the Special Supplement to be distributed with

THE CHEMIST AND DRUGGIST — OF — SEPTEMBER 13, 1930

will be found helpful to buyers and sellers alike of such merchandise. The Supplement will be printed in red on Cambridge blue paper, and advertisers can secure excellent effects with their :: :: :: usual half-tone or line blocks :: :: ::

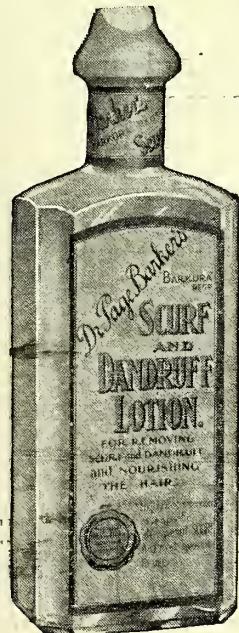
Particulars regarding available space, charges, etc., from

The Publisher,

**THE CHEMIST AND DRUGGIST
28 ESSEX STREET, STRAND, W.C.2**

Phone: CENTRAL 6565 (8 lines) Grams: "CHEMICUS, ESTRAND, LONDON"

BRANCH OFFICES: 49 County Buildings, Cannon Street, MANCHESTER
19 Waterloo Street, GLASGOW
54 Foster's Buildings, High Street, SHEFFIELD



Dr. Page-Barker's Scurf & Dandruff LOTION

The recognised
specific for scurf

EVERY bottle of Dr. Page-Barker's Scurf Lotion bears a positive guarantee that it will eradicate scurf or the purchase price will be refunded. This makes it the easiest to sell of all hair and scalp specifics. And the profit is handsome.

2/-

P.A.T.A.

With every order for 3 dozen you get three 2/6 bottles as bonus, handsome showstand, and attractive showcards.

PER 18/- DOZEN

SEE OUR NEW & ARTISTIC SHOWCARDS

WRITE FOR EXPORT TERMS

THOS. CHRISTY & CO., 4-12 OLD SWAN LANE, LONDON, E.C.4



IF IT
SHAVES
IT'S
WANIE

The Blade that SELLS as it SHAVES—
“LIKE GREASED LIGHTNING !”

Obtainable from all leading Wholesalers.

FREE SAMPLE ON REQUEST:

Dept. C.D., WANIE DISTRIBUTING Co., 89 Aldgate High St., E.C.3
North'n Distributors: S. KALISKY (Aldgate) Ltd., 16 Withy Gv., Manch't'r.
Irish Free State Agents:
Meets. W. A. FREEDMAN & CO., 21 Merchant's Quay, DUBLIN.

Let the “GEM”
make money for you

Write for particulars and
name of local agent to the
manufacturers:—

THE GEM
AUTOMATIC WEIGHING
MACHINE COMPANY
LIMITED
46 NEW CITY ROAD
GLASGOW C.4

**HAIR
BURMAN
CLIPPERS**
For SURGICAL
and VETERINARY
PURPOSES.
HAIRDRESSERS' CLIPPERS

BURMAN & Sons, Ltd., BIRMINGHAM



Dainty Shingling
Clippers for
Ladies' use.

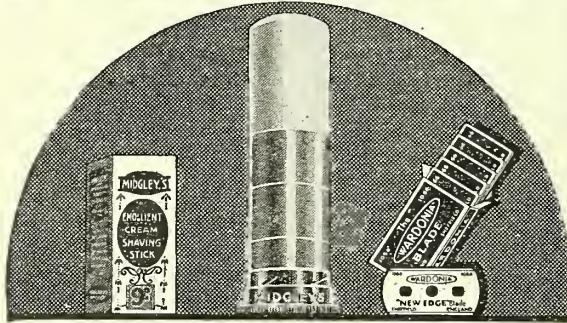
THE CHEMIST & DRUGGIST SUPPLEMENT

is an infallible help when you want to buy or sell a business, secure an agency, an assistant or a situation, or SELL SURPLUS STOCKS.

*The TARIFF is printed on the front cover
of the COLOURED SUPPLEMENT.*

Address all inquiries to—
The Publisher: THE CHEMIST AND DRUGGIST,
28 ESSEX STREET, LONDON, W.C.2.

FREE!



Genuine 9d. Midgley's Full-size Shaving Stick with each 1/3d. packet of Wardonia "New Edge" Blades purchased.

That's the offer thousands of retailers are making good profits on. Widely advertised in the National and Provincial Press. Generous supply of Window and Counter Display Matter FREE with every order. Delivery guaranteed of first order whatever quantity, so order generously and at once from your usual wholesaler or direct

**Enormous Demand
Order at once
50% PROFIT
FOR YOU**

TRADE TERMS:-

1 to 4 Cartons
(per carton) 21/-

5 Cartons
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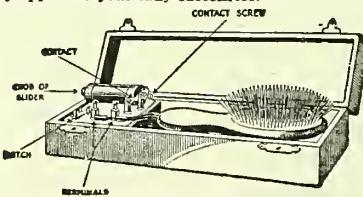
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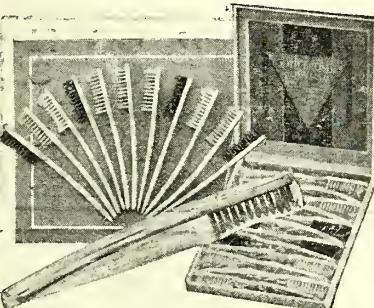
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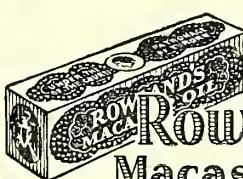
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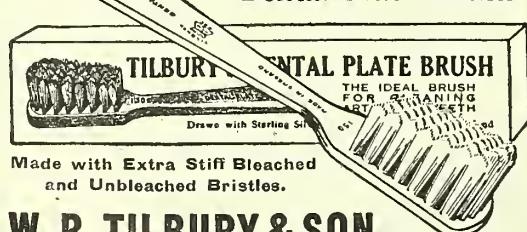
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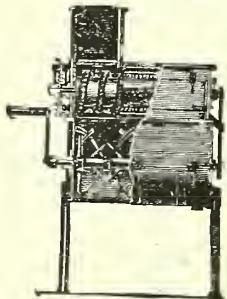
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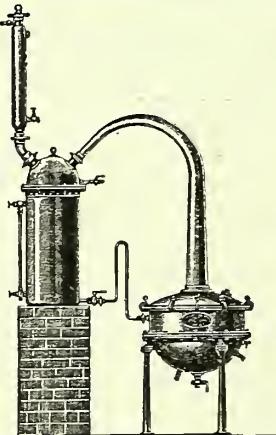


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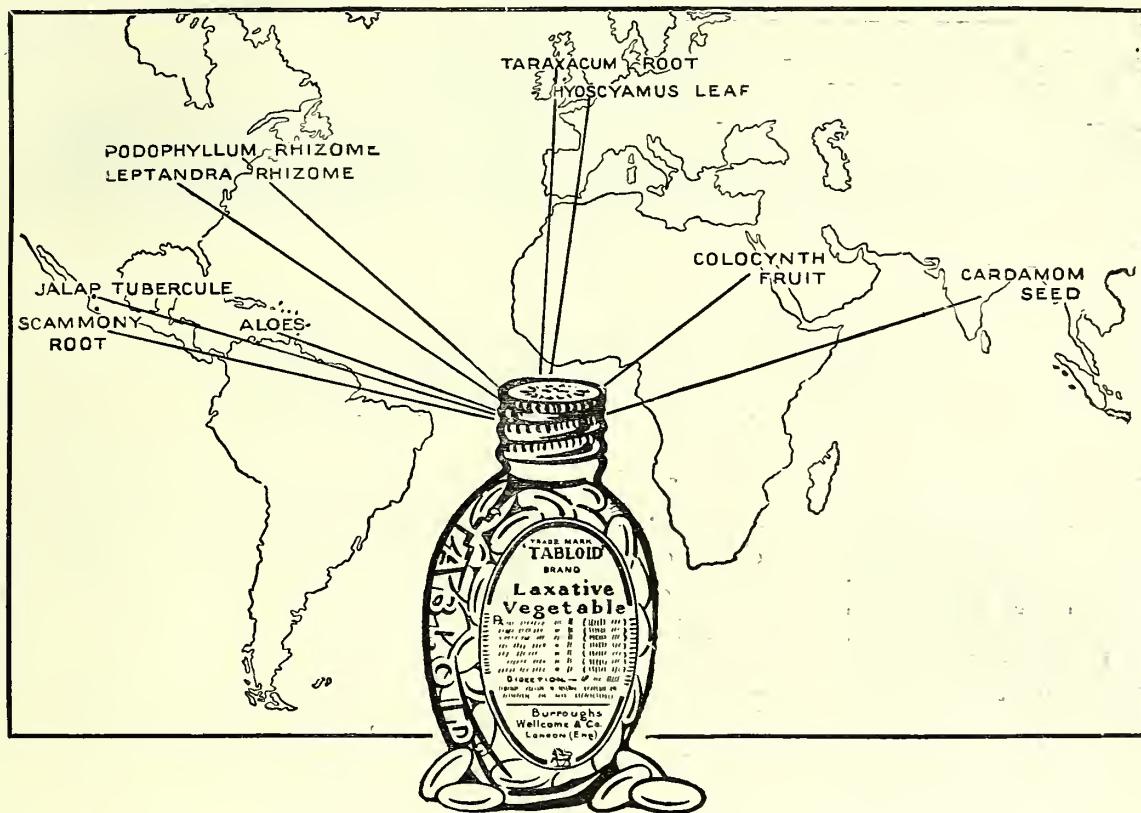
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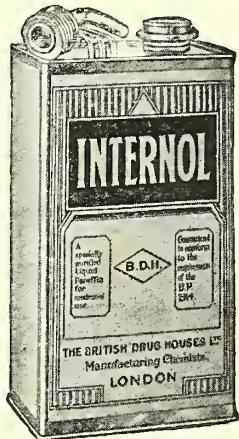
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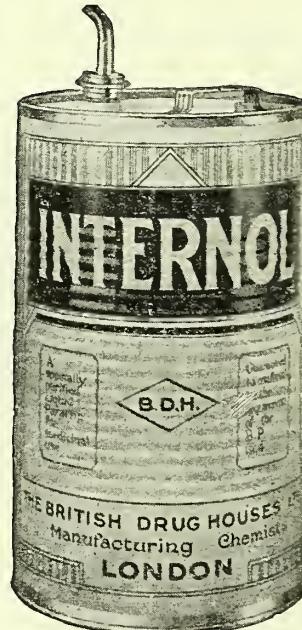
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English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of news-papers containing items of interest for insertion in this or other news sections.

Merchandise Marks Inquiry

The Standing Committee appointed by the Board of Trade will hold an inquiry at 11.30 a.m. on October 6, and at 10.30 a.m. on October 7, as to whether imported fertilisers or feeding-stuffs of certain descriptions (*C. & D.*, 1930, I, 776) should be required to bear an indication of origin. The inquiry will be held at the Board of Trade Offices, Great George Street, London, S.W.1. Communications should be addressed to the Secretary, Mr. E. W. Reardon, at that address.

National Mark Malt Extract with Cod-Liver Oil

A circular, dated August 25, has been issued on the subject of National Mark (Pharmaceutical) malt extract with cod-liver oil by the Ministry of Agriculture and Fisheries. After reciting the standards to which samples have to conform (*C. & D.*, 1929, II, 545), the circular gives details of an investigation into the quality of commercial brands of malt and oil carried out by the Government chemist during the preparation of the National Mark malt product scheme. The material for the investigation was obtained for the Ministry by the random purchase from retail chemists in various parts of the country of some hundreds of 1-lb. jars of malt extract with cod-liver oil. No special brand or price was indicated by the purchasers. From these samples, thirty-two jars were taken with no system of selection except that no recognisable brands were duplicated. Twenty-six samples were analysed for protein content. Of these, two-fifths were below National Mark standard (5 per cent.); two contained less than 4 per cent.; nine contained between 4 per cent. and 5 per cent.; and fifteen contained 5 per cent. and over, with a maximum of 6.9 per cent. In the specific gravity test 15 per cent. of the samples failed to reach National Mark standard (1.4). More than 50 per cent. of the samples analysed for cod-liver oil content were not of National Mark standard. Nine contained less than 13 per cent.; of these, one showed only 10.8 per cent. An equal number

contained more than 16 per cent., with a maximum of 19.6 per cent. It was in the diastatic activity of Lintner value that the greatest variations occurred. Out of the thirty-two samples subjected to this test only five conformed to the National Mark standard (25), the figures being 36.4, 36.5, 36.7, 36.8 and 51.9 respectively. In one case the diastatic activity was 20.2. Nine were over 10, but did not exceed 20; nine varied between 5 and 10; six were below 5, and in two cases diastatic activity was entirely non-existent. There was thus an average of approximately 14. Only one sample tested complied with all the National Mark scheme requirements (leaving country of origin of the grain out of account). The circular adds: "Now that a guaranteed standard of malt and oil—National Mark malt and oil—is obtainable throughout the country, from the leading store chemists and from good pharmacists, the medical profession and the public are assured of securing a satisfactory product of unvarying high quality."

Liverpool

Miss P. M. Fawcett, daughter of Mr. Frank D. Fawcett, Birkenhead, and Miss M. H. Robinson, eldest daughter of Mr. John H. Robinson, Liverpool, have been awarded first-class certificates issued by the National Council for Domestic Studies.

Mr. W. H. Saunders, F.C.S., chairman of Ayrton, Saunders & Co., Ltd., in a letter to a New Zealand newspaper (just received in London), suggests a scheme of propaganda whereby the amenities of that country can be brought to the notice of prospective tourists.

Sheffield

Sheffield Chemists' Golfing Society held a meeting over the Dore and Totley Golf Course, on August 21, for prizes presented by The British Drug Houses, Ltd. The results were:—1, L. S. Crisp (89–16), 73; 2, C. F. Mote (89–9), 80.

It has been decided to hold the annual "joy night" of the local branch of the Pharmaceutical Society on October 30 and to hold a dinner and dance at the Royal Victoria Hotel in February in conjunction with the Sheffield Pharmaceutical and Chemical Society.

MISCELLANEOUS

THEFT OF CAMERAS.—A window at the pharmacy of Mr. R. C. Wilson, chemist and druggist, Camberwell New Road, London, S.E., was broken on August 19 and several cameras were stolen.

INQUEST.—At Wimbledon, London, S.W., on August 22, an inquiry was held concerning the death of Mrs. Annie Henderson, Salisbury Gardens. A letter left by the deceased stated that she had taken fifty aspirin tablets, and medical evidence was given to the effect that the cause of death was syncope following the action of some depressant poison. A verdict of "Suicide while of unsound mind" was recorded.

SHOP HOURS.—At a recent meeting of the Blackpool Chamber of Trade, the chairman (Mr. D. J. Bailey, chemist and druggist) called attention to a tendency for shopkeepers to extend the recognised hours of shopping, with the result that complaints are general. It was stated that with the continued depression in the staple trades of Lancashire there is a disposition to break the recognised customs in respect of shop hours.—The recent appeal of Moreton (Wallasey) chemists against the proposed early closing order has been allowed. It is now considered probable that the closing order, which was to be applied throughout the borough, will be dropped.

DANGEROUS DRUGS ACTS.—At Maidenhead Police Court, on August 20, 25 and 27, Geoffrey B. Wilmer was charged with being in unlawful possession of 16½ gr. of heroin. It was stated for the prosecution that prescriptions were obtained by the defendant from a Mr. Starkie, formerly a registered medical practitioner, and that they were dispensed by Mr. A. E. Breakspear, chemist and druggist, Maidenhead, and by a Henley chemist. Mr. Breakspear communicated with Mr. Starkie, and the other chemist consulted a Medical Register (which, unfortunately, was out of date). The accused was sentenced to six months' imprisonment.

Scottish News

BREVITIES

Many Scottish chemists are on holiday.

Arrangements are being made for the holding of a shopping week in Dumfries.

Sunday duty for local chemists by rota is suggested by a correspondent in the "Montrose Standard."

The abnormal number of proprietaries on the market is causing a reversion to the pushing of chemist's own lines.

Mr. D. B. Dott, writing to "The Scotsman," deprecates the suggestion "to relieve the grimness of the Calton Crag" by an artificial arrangement of floral decoration.

"A weapon cutting both ways," writes a correspondent, "has been created by persuading panel doctors to prescribe large quantities and small doses so as to reduce dispensing fees. There is ample evidence that a large percentage of medicine goes down the sink or is used by non-insured persons."

At Edinburgh Sheriff Court, recently, a summons against McArthur & Co., drysalters, Gorgie Road, for having sold liquid ammonia in a bottle not distinguishable by touch was dismissed, the sheriff holding that the bottle in question, a sauce or ketchup bottle, could not be described as "not distinguishable by touch from an ordinary bottle."

Irish News

Chemists' and Druggists' Society of Ireland

A meeting of the General Committee of the Chemists' and Druggists' Society of Ireland was held at Belfast on August 21, Mr. Fred Storey (president) in the chair. Others present were Messrs. S. Gibson, W. E. Wilson, C. Abernethy, R. McBirney, A. W. Stevenson, D. A. Taylor, and James Macauley. Apologies for absence were received from several members. The following subcommittees were appointed:—*Rooms*, Messrs. Abernethy, McBirney, Stevenson, Roberts, Wilson, Taylor and Gibson; *Finance*, Messrs. Gibson, Macauley, Martin, Wilson and Suffern; *Social*, Messrs. Wilson, McRoberts, Davis, Gibson, Abernethy, Taylor and Stevenson. The president said that since their previous meeting the last examinations for registered druggists under Schedule 2 had taken place; the successful candidates were to be congratulated. There were now very few registered druggists left in business; most of those who had not qualified were out of business or abroad. There were still the apprentices and assistants to the registered druggists, who had until June 1932; there were very few of them, and they would be afforded facilities as to classes and the use of the rooms. Mr. Wilson said he understood there were a number of pharmaceutical assistants still to qualify under Part 2, Schedule 2. Mr. Abernethy asked what was the position now regarding medical benefits. Mr. Gibson considered that the chemists had been placed in a very weak position. Instead of agreeing to everything being done by regulations they should have got as much as possible included in the Act. A blunder had been made in not getting a central committee included, as the panel chemists would know to their cost later on. The president agreed, and said they had the bitter experience of the Dangerous Drugs Acts Regulations and also of the Act dealing with the sale of agricultural poisons. Mr. Wilson thought if there would be any shortage in the funds it would be the chemists who would suffer, as the medical men had their terms practically all fixed in the Act.

BREVITIES

Mr. J. F. Grimes, R.D., has tendered his resignation from the Cookstown Rural District Council.

Dr. A. J. McConnell, who has been appointed professor of natural philosophy at Dublin University, is a brother of Mr. J. A. McConnell, Ph.C., Ballymena.

An adjourned inquest was held recently concerning the death of Hugh Quinlick, farmer, Clonmahon, Monaghan. Analysis of the contents of the stomach showed the presence of 22½ gr. of arsenic. The jury found that the deceased died from poisoning, the poison having been self-administered while temporarily insane.

At an inquest held recently at Clooney, co. Tipperary, on the body of Mrs. Mary Farmer, it was stated that death was due to arsenical poisoning. There was nothing in the packet of sheep dip found in the house to indicate the proportion of arsenic which it contained. The jury returned a verdict of "Suicide while temporarily insane."

At Enniskillen Petty Sessions, recently, several traders were prosecuted for selling pepper containing turmeric. In one case Mr. J. Cooper, for the defendant, challenged the analyst's certificate. He submitted the report of a public analyst for four English counties that the sample of pepper submitted was genuine pepper and had been coloured with less than 1 per cent. of turmeric. Mr. Cooper applied that the remaining third of the sample taken be sent to Somerset House for analysis, the loser to bear the expenses. The Court granted the application.—In another case Mr. R. A. Herbert, for the defence, said that he had the written warranty with the invoice. He put in the certificate of the public analyst for Londonderry and County Down, which showed that turmeric was present to the extent of only 0.75 per cent. The Court agreed to send a sample to Somerset House.—In a third case a fine of 5s. 6d., with 16s. 6d. costs, was imposed.

Draft N.H.I. Regulations

Northern Ireland

THE draft regulations for pharmacists under the new National Health Insurance Act in Northern Ireland are still under consideration. The original draft occupies sixty-one pages of closely-printed matter. The following summary of the principal proposals will be of interest to the trade.

Organisation and Representation.—Six administrative areas are proposed—Belfast City, Antrim, Armagh, Fermanagh and Tyrone, and Derry City and County. In each of these areas a local Pharmaceutical Committee will be set up by election from insurance chemists in the area. This Pharmaceutical Committee will, *inter alia*, appoint chemists to sit on the local Pharmaceutical Services Committee, where all complaints against chemists will be investigated, and with the similar local Practitioners Services Committee appoint the representatives (equal numbers of doctors and chemists) on the Joint Services Committee, to investigate complaints in which doctors and chemists are associated. These committees are under the Medical Benefit Council (C. & D., August 23, p. 262). In addition there will be from time to time *ad hoc* committees set up, as directed in the Act.

Prescriptions will be issued in duplicate, and may be compounded by any chemist in the area. Arrangements will be made regarding temporary residents. Whatever is ordered on a prescription must be supplied, and will be paid for; if prescriptions are written which should not reasonably have been provided for an insured person the prescriber will be surcharged.

Service.—Reasonable service as regards working hours must be given. This has been defined as at least as good as obtains for private persons in the neighbourhood; but a chemist with a lock-up shop in a village who does not reside there will not be considered as giving reasonable service. Each chemist must sign an application to be placed on the list of insurance chemists, stating the hours of service. Where a closing order is in force the closing hour expected should be observed. Where no closing order is in force the local closing custom should be adhered to, but reasonable arrangements must be made for emergency service.

Urgent Prescriptions.—Only prescriptions marked "urgent" by the prescriber need be made up after the closing hour.

Pricing of Prescriptions.—Prices will be from a tariff (arranged by the addition of a percentage to a standard wholesale list) plus a scale dispensing fee. It is calculated that about 90 per cent. of the dispensing will carry a fee of 5d.; a few items like single powders are 2½d., and a few such as plasters 7½d. The actual pricing will probably be arranged for through the Scottish Pricing Bureau.

Payments.—Provided the scheme begins on October 1, as expected, the October prescriptions should be sent to the prescribed address for pricing on November 1, and will be paid for about December 1, November prescriptions in January, and so on.

Checking.—The North Irish Pharmacists' Association is considering setting up a Checking Bureau.

Tariff Prices.—These prices are arrived at by taking list prices per lb. (of goods usually bought in 1-lb. lots) and dividing by 11 to get the price per oz. The tariff price per oz. is divided by 7 to get the drachm rate, and the drachm by 50 to get the grain rate. Liquids such as tinctures are priced by dividing the price per lb. by 12 to get the oz. rate; this by 7 to get the drachm rate; and this by 50 to get the minim rate. Special arrangements have been made in the case of drugs usually purchased in small quantities, but listed at per oz.; also of liquids heavier than water.

List of Insurance Chemists.—Every person who is licensed to act as a pharmaceutical chemist in Northern Ireland may apply to be placed on the insurance list. The supply of dispensed medicines and drugs is confined to pharmaceutical chemists only. In certain cases, where no chemist is within reasonable distance the doctor may dispense, but the established principle is

"doctors to prescribe, chemists to dispense." An advertisement will be issued or some other means taken of communicating with chemists so that the insurance lists may be made up.

Doctors' Emergency Supplies.—A definite amount of emergency supplies has to be carried by each insurance practitioner. When this is exhausted he will indent on a chemist for further supplies at tariff rates, without dispensing fee.

Dressings and Appliances.—To be supplied at tariff rates, without dispensing fee. Druggists may apply for inclusion on this list.

Containers.—Suitable containers must be provided by insured persons; if necessary, chemists may supply against a deposit (scale arranged), which must be refunded when container is returned in good condition and clean.

General.—Chemists must not offer any inducement to insured persons, either by way of gift, bonus, dividend, or in any other way. N.H.I. dispensing service must not differ in any way from good-class private work. All drugs, medicines, dressings and appliances must be delivered to insured persons free of all cost. All dispensing must be done by, or under the direct supervision of, a pharmaceutical chemist. Each insurance chemist must display a notice to the effect that he is on the list of insurance chemists. Doctors are prohibited from having consulting rooms in premises occupied by chemists. The Medical Benefit Council will prepare a drug-testing scheme.

If any chemist desires further information on any point and will write to the secretary of the N.I.P.A. the information will be placed at his disposal.

Business Changes

MR. MAX BROOMBERG, chemist and druggist, has taken over the pharmacy at 112 Bonnington Road, Leith.

MR. WALTER S. TAYLOR, chemist and druggist, has recently opened a business at The Central Pharmacy, Hoylake.

MR. HENRY LOVETT, chemist and druggist, has opened a pharmacy at 342 Baker Street, Enfield.

MR. W. E. CHURCH, chemist and druggist, is opening a pharmacy in Columbia Road, Bournemouth, on September 1.

THE telephone number of A. Livermore & Co., Ltd., chemical merchants, 110 Cannon Street, London, E.C.4, has been changed to Mansion House 7300 as from September 1.

THE high-class family and dispensing business at 110 Mill Lane, West Hampstead, London, N.W., which has been carried on successfully for the past twenty-nine years by Mr. Charles A. Noble, chemist and druggist, has been acquired by Savory & Moore (1928), Ltd.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Wednesday, September 3

Manchester, Salford and District Pharmacy Club, Clydesdale Club, Turner Street, at 8.30 p.m. Annual general meeting. Election of officers and committees.

Scottish Chemists' Bowling Association, Rutherglen Bowling Green, Stonelaw Road, Rutherglen. Competition for "Travellers" trophy. Ties to commence at 10 a.m.

Manchester University Pharmacy Students' Association, Clydesdale Club, Turner Street, at 3.15 p.m. Preliminary meeting to elect a committee and discuss arrangements for an annual reunion of past students. Past students interested and unable to attend are asked to communicate with the secretary, Miss J. Duncan, Victoria University, Manchester.

South African News

From "C. & D." Correspondents.

"The Chemist and Druggist" is supplied weekly to members of Chemists' Societies in South Africa.

Cape Province

THE late Mr. Albert Walsh, whose death was recorded in our issue of July 5 (p. 14), was a pharmaceutical chemist of Great Britain, having passed the Major examination in 1874. He was born in Northamptonshire and went to South Africa in 1877. After running a chemist's business in Uitenhage for three years, he joined B. G. Lennon & Co. as managing partner, later becoming general manager of the newly-formed company, Lennon, Ltd., and in 1902 he went to Cape Town. He was a member of the Colonial Pharmacy Board from its inception, and for some years before his retirement in 1924 was its president. He was for many years president of the Cape Town Chamber of Commerce and a member of the Table Bay Harbour Board. He was the honorary treasurer of the South African Association for the Advancement of Science.

Transvaal

DR. McCRAE, F.J.C., F.C.S., Government Analyst and Director of the Government Laboratories, Johannesburg, retired from active service on July 30 last.

ADVENT OF THE ROBOT CHEMIST.—The robot chemist has made his debut in Johannesburg. One of these automatic dispensers of medicines is now to be seen daily doing duty outside a chemist's shop in Joubert Street, Johannesburg, after the hard-worked human assistants have gone off duty. A complete list of the emergency medicines at present obtainable at the robot include aspirin, cascara, iodine, cough mixture, castor oil, sore throat tablets, baby's soothing powders, boracic lint and bandages, a preparation to stop bleeding, toothache remedy, ammoniated tincture of quinine, sal volatile, a preparation to apply on burns, bicarbonate of soda, Epsom and Glauber salts, eucalyptus and camphorated oil.

Pharmaceutical Society of the Transvaal

THE PRESIDENT DISCUSSES PROTECTION

THE annual banquet of the Pharmaceutical Society of the Transvaal was held on July 15 at the Langham Hotel, Johannesburg. The chair was occupied by Mr. E. Solomon (president of the Society), and the company included Dr. J. A. Mitchell (secretary for Public Health), Mr. John Christie, M.P., Mr. G. W. Nelson (Deputy Mayor of the city), Dr. J. J. Levin, and Messrs. H. J. Clancy, S. U. South, P. J. Spruit, G. B. Christie, J. L. Anderson, F. Carter, A. M. Fyvite, E. Herbert and R. Mackintosh. The Secretary for Public Health (Dr. J. A. Mitchell), replying to the toast of "South Africa," dealing with various criticisms levelled against the recently enacted Medical, Dental and Pharmacy Act, said that the Act was originally drafted by a chemist and druggist. In dealing with the Bill, the Minister, Parliament, and even the parliamentary representatives of the pharmaceutical profession, had to allow for many divergent interests. In his opinion, the working of the Act had up to the present been an unqualified success. It might not be ideal, but it could not be fairly said that the profession of pharmaceutical chemists was one of the Cinderellas. The whole system of dealing with the medical, dental and pharmaceutical professions as cognate callings in one measure was sound, he said, and they had as good an Act—if not a better one—as similar measures in existence. Many things that chemists wished to have tightened up, said Dr. Mitchell, could be dealt with under the Act, or under regulations framed under the Act. Reference had been made to possible amendments to the Act in certain directions. He feared, however, it would be a difficult matter to secure any amendments. He did not think the Minister of Public Health would be inclined to consider amend-

ments unless it were conclusively proved to him that amendments were necessary. Referring to the difficulties in the country districts, Dr. Mitchell said he considered that there should be a competent pharmaceutical chemist in every village. He was therefore glad to note that there were some 1,200 pharmaceutical chemists in the Union, of whom 400 were in the Transvaal. This was a fair number for a country of the population of South Africa.

CHEMISTS FOR "EXPORT"

Dr. Mitchell said he was glad to hear that there was no likelihood of a shortage of qualified men. It was very gratifying to find young men coming forward for the profession, and that, as a result of the efforts of the Pharmaceutical Board, the standard and training of young chemists had been much improved. He was indeed looking forward to the time when the training schools would be meeting not only local requirements, but developing a very lively "export" trade in doctors, dentists and chemists. The chairman (Mr. E. Solomon), in proposing the toast of the South African Pharmacy Board, said that the Board had to please the Government, the profession and the public—an onerous task. One of its chief duties was to look after the apprentices, and the educational standard for pharmacy in South Africa was as high as anywhere in the Empire. Even so, the Board was thinking of increasing the syllabus.

STOREKEEPERS COMPOUND AND DISPENSE

On the subject of the Pharmacy Act, Mr. Solomon submitted that the profession had not at present sufficient protection. If the public were to be protected, it should be wholly protected. According to the Act, only chemists were permitted to compound and dispense medicine. Yet storekeepers were compounding medicines freely. Mr. Solomon went on to say that a couple of years ago a storekeeper was charged with selling a farmer about 20,000 bottles of Dutch medicines. (Laughter.) That man drank about seven hundred liquor bottles of medicine, and, naturally, he died. The storekeeper was merely fined. In the same way they had a schedule of poisons which was more honoured in the breach than in the observance by storekeepers. He had yet to hear of a police prosecution for such an offence. Mr. Solomon urged the Board to take steps to secure a prosecution. If country storekeepers could be prevented from selling genuine pharmaceuticals there would be many fresh openings for young men. Only that very morning twenty-eight young men had passed their final examination, and had qualified as chemists. Where were they to find work or open shops, he asked?

Mr. John Christie, M.P. (president of the South African Pharmacy Board), responded to the toast. He said that in listening to the chairman (Mr. Solomon) he had felt very sad. It seemed to him there was not a bright spot in the whole world of pharmacy. But he thought that the Board had started off rightly when it declared it was not going to try to please everybody. If it tried to do that, it would please nobody. The Board was also concerned with the privileges of the public. In every instance where the Act gave protection to chemists, there was greater protection for the public themselves. The profession was free and independent of the other professions embraced in the Act. "We are not in the position of a prosecutor when the law is not obeyed," said Mr. Christie. "When a chemist or storekeeper goes wrong we have to rely on the police to take action. But that is a difficulty we shall get over. We have the assurance of the Commissioner of Police that they will assist us. I am not worried about twenty-eight chemists being made in six months," proceeded Mr. Christie. "I would not be worried if we made twenty-eight chemists every six months for the next two or three years, as seems likely. We have arrived at the stage at which we are making our own chemists, and we are making them jolly well. We do not receive chemists from other countries or the Dominions."

The toast of "South Africa" was proposed by Mr. M. J. Clancy, and that of "Our Guests" by Mr. S. U. South.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

GROVE CASH CHEMISTS, LTD. (P.C.).—Capital £300. Objects: To carry on the business of chemists, druggists, drysalters, oil and colour merchants, etc. The directors are: S. White and J. L. Hicks. R.O.: 115 Oxford Street East, Liverpool.

ALPH. SHARP & CO., LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of a chemical manufacturer carried on by Alphonse Sharp, at Copley Chemical Works, Copley, Halifax, as "Alph. Sharp." R.O.: Copley Chemical Works, Wakefield Road, Copley, Halifax.

ACTA, LTD. (P.C.).—Capital £210. Objects: To carry on the business of druggists, chemists, manufacturers and dealers, etc. The directors are: D. W. Nicolson, 54 Portland Street, Kilmarnock, Ayrshire, chemist, W. Cox, 44 Dockhead Street, Saltcoats, Ayrshire, chemist, and M. Mildrum, 7 Monument Road, Ayr. R.O.: 7 Burns Statue Square, Ayr.

JOHN POYNTER, SON & MACDONALD, LTD. (P.C.).—Registered in Edinburgh on July 19. Capital £30,000. Objects: To carry on the businesses of manufacturers and dealers in animal charcoal, sulphate of ammonia, bone oil and baking powders; tallow meltters, soap manufacturers, oil and lard refiners, etc. The directors are: Wm. Hamilton Stewart Macdonald, Andrew Stewart Macdonald, and Ronald James Gilbey Macdonald. R.O.: 189 St. Vincent Street, Glasgow.

BRANDRAM BROTHERS & CO., LTD., are paying an interim dividend of 4 per cent. on the ordinary shares on September 14.

COMPANY DISSOLVED.—Notice has been given in "The London Gazette" that the name of the Russell Oil & Chemical Co., Ltd., has been struck off the register and the company dissolved.

ALEMBIC CHEMICAL WORKS CO..—The report for the year ending December 1929 shows a gross profit of 24 per cent. Out of this Rs.50,000 was added to reserve, which now stands at Rs.300,000. A total dividend of 10 per cent. has been declared.

Bankruptcy Reports

Re Joseph Langshaw, 126 Warrington Road, Ince in Makerfield, Lancashire, chemist and druggist. This debtor appeared at the offices of the Official Receiver, Government Buildings, Victoria Street, Liverpool, on August 6, for the first meeting of his creditors, and submitted a statement of affairs showing liabilities of over £400 and assets of £387. The latter consisted mostly of the estimated surplus from properties. It was reported that there was a prospect of a composition being made which would be accepted by the creditors. The meeting was, therefore, adjourned for the consideration of this.

Private Arrangements

Richard Thomas Ridsdale, London Road, Cowplain, Hants., chemist and druggist.—This trader has consulted Mr. P. S. Booth, of the Association of Manufacturing Chemists, Ltd., recently in regard to his affairs, and a deed of assignment to Mr. Booth was executed for the protection of the estate. It is stated that the liabilities amount to £270, and the assets, if realised on the basis of a going concern, should produce £130. The debtor has no personal estate, except a life policy, the surrender value of which is £13, and is charged to the bank in security of an overdraft for a like amount, and it is thought that no equity will arise from this source. The whole of the household furniture is the property of his wife. In March 1928 the

debtor took over empty shop premises at London Road, Cowplain. The turnover of his present business is £12 weekly, which low figure the debtor attributes to depressed conditions. He states that he has drawn on an average £4 a week, and it is apparent that he has sustained a loss on trading. The following are creditors:—Agfa, Ltd., £10; Ensign, Ltd., £10; Evans Sons Lescher & Webb, Ltd., £10; May, Roberts & Co., Ltd., £141; Willows, Francis, Butler & Thompson, Ltd., £20; Wright, Layman & Umney, Ltd., £21.

Arthur Beaumont Ogle and Dorothy Mary Ogle, trading as A. B. Ogle & Co., 417 Shirley Road, Southampton, chemists. A meeting of the creditors was held at the offices of the Association of Manufacturing Chemists, Ltd., Kimberley House, Holborn Viaduct, E.C., on August 6, when the chair was occupied by the representative of Randall & Wilson, Ltd. Mr. Weller presented a statement of affairs, showing liabilities amounting to £1,665 8s. 10d. The assets comprised stock in trade estimated to produce £1,250; and other items, making net assets of £1,670 9s. 6d., thus showing a surplus of £5 os. 8d. Mr. Weller reported that Mr. Ogle commenced business on his own account at St. Denys in December 1923. His capital at that time was £500, represented by loans. He acquired the business of a Mr. Roberts, paying the sum of £400 for the same; but this business was not a success, and in March 1925 it was disposed of for £650. Mr. Ogle stated that in respect of that business he incurred a loss on trading, and after discharging the claims of the creditors of that business he reckoned that he lost a total sum of £134. In July 1925 he commenced business at 417 Shirley Road, Southampton, in partnership with his wife. They purchased shop premises with dwelling accommodation, paying £2,100 for these premises, and, at the same time, obtaining a mortgage for £1,600 from the National Provincial Bank. In June 1927 the mortgage was transferred to Mrs. Phelps, who in addition advanced a sum of £100, making the total mortgage £1,700, which carried interest at 6 per cent. In July last the debtors obtained a second mortgage for £200 from a Mr. Goater, this mortgage carrying interest at 15 per cent. per annum. At the time the debtors commenced the business a Mr. Walker advanced to them £500, the loan to carry interest at 6 per cent. At the time the business was commenced Mr. Ogle brought in £350, the amount left over after discharging the liabilities of the St. Denys business. With regard to the trading the returns of the business since July 1925 down to date had been as follows:—For the year to July 1926 £1,606; in the next year £2,193; in the next year £2,560; in the next £2,608, and for the year to July 1930 £2,364. In addition to the retail trade, the debtors had conducted a small wholesale business. Mr. Weller stated that there was no doubt that the business was greatly over-stocked. Mr. Walker was prepared to stand aside for a period of two years subject to the interest on his loan being paid. It was resolved to confirm the deed of assignment, with a committee of inspection. The following are creditors:—Breidenbach & Co., £14; The British Drug Houses, Ltd., £16; Burgoyne, Burbidges & Co., Ltd., £12; Bristow, T. F., & Co., Ltd., £10; Cussons Sons & Co., Ltd., £14; Coty (England), Ltd., £22; Dalmas, A. de St., & Co., Ltd., £24; Ferryman, Ltd., £152; Imperial Dry Plate Co., £18; Lichnor & Co., £11; Maw, S., Son & Sons, Ltd., £37; Maclean, Ltd., £11; Meggeson & Co., Ltd., £14; Newbery, F., & Sons, Ltd., £11; Parfumeries de Paris, Ltd., £71; Parke, Davis & Co., £12; Randall & Wilson, Ltd., £73; Townsend, J., & Sons, £12; Ward, T., & Sons, £14.

Gazette

Partnership Dissolved

STOOKE, F. A., and MCARTHUR, D., 62 Church Street, Harwich, and 124 High Street, Colchester, Essex, chemists and druggists, under the style of Bevan & Stooke.

Pharmaceutical Society of Great Britain

Examination Results

LONDON

THE following are the results of the examination held in London in July:—

Pharmaceutical Chemist Qualifying Examination

The following candidates were successful:—Caldwell, A. F.; Edyvean, E. R. C.; Funnell, Rose M.; McEwan, G.; Oliver, Phyllis R.; Ragg, L. W.; Soulsby, J. W. The number of entrants was twenty-four; one was referred, and two were absent.

EDINBURGH

The following are the results of the examinations held in Edinburgh during July:—

Pharmaceutical Chemist Qualifying Examination

The following candidate was successful:—Moffat, David, Renfrew. Of the fifteen candidates examined, three were referred.

Chemist and Druggist Qualifying Examination

	No.	PRELIMINARY SCIENTIFIC				CHEMIST AND DRUGGIST QUALIFYING			
		Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for Prelim. Sc. exam. ..	273	3	125	54	91	—	—	—	—
Entered for C. and D. exam. ..	29	—	—	11	18	—	—	—	—
Entered for C. and D. exam. ..	267	—	—	—	—	5	61	66	135
Referred subject in C. and D. exam. ..	11	—	—	—	—	1	—	2	8
	580	3	125	65	109	6	61	68	143

Referred in one subject:—Botany, 20; chemistry, 23; physics, 22; pharmacognosy, 8; pharmacy, 46; pharmaceutical chemistry, 14; total, 133.

The following, having satisfied the examiners in the Chemist and Druggist Qualifying examination, have been registered as chemists and druggists:—

Allinson, S., Gateshead-on-Tyne	Cheetham, G. H., Walkden
Alstead, U. F., Wigan	Cohen, I. L., Leeds
Alton, E. H., Leeds	Conlan, C. A., Liverpool
Anderson, Elizabeth S., Glasgow	Craigie, J. R., Glasgow
Anwyl, T. G., Rhyl	Crowder, J. G., S. Hetton
Armstrong, T., Blyth	Cruickshank, A., Glasgow
Baker, L., Leeds	Dalton, R. E. L., Barnsley
Baxter, J. H., Whithorn	Davidson, T. S., Burghead
Black, J., Liverpool	Davies, E. H., Leith
Bray, R., Crewe	Davies, J. C., Wrexham
Bruster, F. G., Sheffield	Dixon, F. A., Preston
Bull, F. G., Aberdeen	Donaldson, Wm. O., Glasgow
Burdess, Wm. H., Easington Colliery	Donkin, N., S. Hylton
Cairnie, Jessie M., Glasgow	Douglas, J., Aberdeen
Campbell, A., Glasgow	Downie, Jessie J., Port-knockie
Cathro, Dorothy S., Frodsham	Duers, J. J., Glasgow
Chapman, Wm. J., Edinburgh	Dyde, S. B., Scarborough

Eyre, H. R., New Rossington	Plenderleith, Marion R., Montrose
Farlam, T., Workington	Reed, J., Stanley, co. Durham
Fellows, G. H., Glasgow	Reese, Wm. T., Aberangell
Fenton, F. D. S., Barrhead	Rennie, Wm. M., Aberdeen
Forrest, J., Paisley	Richards, J., Gateshead-on-Tyne
Forrest, W., Manchester	Gillies, G., Hull
Fraser, Jean, Kingussie	Gilmour, A., Ayr
Hamilton, H., Bury	Glen, Olive M., Edinburgh
Haselhurst, J., S. Elmsall	Hamilton, H., Bury
Haynes, G. K., Leeds	Haselhurst, J., S. Elmsall
Hick, Florence I., Otley	Haynes, G. K., Leeds
Hinds, Elizabeth, Glasgow	Hick, Florence I., Otley
Hirst, L., Emley Moor	Hinds, Elizabeth, Glasgow
Hislop, I. W. G., Jarrow-on-Tyne	Hirst, L., Emley Moor
Hodskinson, E. G., Lytham	Hislop, I. W. G., Jarrow-on-Tyne
Holmes, C. L., W. Kirby	Hodskinson, E. G., Lytham
Hughes, J., Liverpool	Holmes, C. L., W. Kirby
Hyman, N., Leeds	Hughes, J., Liverpool
Irvine, R. W., Glasgow	Hyman, N., Leeds
Jackson, Georgeina G., Manchester	Irvine, R. W., Glasgow
Jackson, J., Bradford	Jackson, Georgeina G., Manchester
Jamieson, Charlotte J., Keith	Jackson, J., Bradford
Jaques, A., Barnsley	Jamieson, Charlotte J., Keith
Johnston, A. C., Glasgow	Jaques, A., Barnsley
Jones, E. P., Liverpool	Johnston, A. C., Glasgow
Jones, F. A. A., Leeds	Jones, E. P., Liverpool
Katz, H. I., Leeds	Jones, F. A. A., Leeds
Kay, J., Glasgow	Katz, H. I., Leeds
Kinloch, J., Glasgow	Kay, J., Glasgow
Kirkham, R. D., Edinburgh	Kinloch, J., Glasgow
Lake, L. H., Newcastle	Kirkham, R. D., Edinburgh
Leach, R., Bradford	Lake, L. H., Newcastle
Leask, B., Edinburgh	Leach, R., Bradford
Lindsay, R., Glasgow	Leask, B., Edinburgh
Links, M., Glasgow	Lindsay, R., Glasgow
Long, E., Southport	Links, M., Glasgow
McEwan, J. J., Glasgow	Long, E., Southport
McIntosh, Catherine F., Fraserburgh	McEwan, J. J., Glasgow
Mackenzie, G. D., Glasgow	McIntosh, Catherine F., Fraserburgh
MacKenzie, J. A., Elgin	Mackenzie, G. D., Glasgow
McNee, T. S., Glasgow	MacKenzie, J. A., Elgin
Mair, J., Portknoeckie	McNee, T. S., Glasgow
Mathie, Margaret A., Glasgow	Mair, J., Portknoeckie
Mawer, Phyllis F., Southport	Mathie, Margaret A., Glasgow
Mayall, H., Macclesfield	Mawer, Phyllis F., Southport
Miller, R. S., Aberdeen	Mayall, H., Macclesfield
Morton, J., Galston	Miller, R. S., Aberdeen
Nicholson, D., Dunfermline	Morton, J., Galston
Norwich, L., Edinburgh	Nicholson, D., Dunfermline
Orme, H., Manchester	Norwich, L., Edinburgh
Orr, D. H., Wallasey	Orme, H., Manchester
Paterson, W. W., Ayr	Orr, D. H., Wallasey
Percival, W., Farnworth	Paterson, W. W., Ayr
Peters, G., Tanyfron	Percival, W., Farnworth
Philip, R. J., Glasgow	Peters, G., Tanyfron
Phillips, J., Edinburgh	Philip, R. J., Glasgow

Apprenticeship Days: Some Reminiscences

By Frank English

HUMAN nature in its thoughts may be prospective, with its indefiniteness, introspective, with its tendency to fatalism, or retrospective, in which function alone memory can be sweetened with many pleasantnesses. May a still active pharmacist put into words some of that pensiveness which has grown, almost moss-like, over an experience of half a century in all phases of pharmacy from cleansing bottles to interpreting those many statutes and their provisions which have now accumulated around our common calling?

The late nineteenth century offered few opportunities for studious youth outside the learned professions, which were beyond my grasp; I could only see a vocation in pharmacy. A sympathetic schoolmaster had stimulated an interest in elementary science, and a kindly pharmacist with family associations opened the door by offering a six years' apprenticeship, with a wage averaging £10 a year, paid quarterly. The old Preliminary examination had been duly passed in the very early teens, and with the initial barrier to the calling safely out of the way I assumed an apron, as was the custom in those days, and became initiated into the mysteries of the craft. The business was situated in one of those quiet old country towns, in a fertile valley, watered by a pleasant stream which flowed between limestone and sandstone, and as a tributary ended its course in one of our great rivers. This little river was a constant source of pleasure; it rose in a rocky woodland a few miles away, "to bicker down a valley."

Features of a Country Business

The business was distinctly of the old-fashioned general type—in fact, a multiple country business. In addition to that of a chemist and druggist it included as prosperous additions a wine and spirit business and an extensive connection in ironmongery. I have never regretted this aspect of my early days under a principal who was a pre-1868 registered man; it was an initiation fruitful in numerous ways to a young apprentice. The shop was well fitted and maintained comfortably warm during winter time by the fire of the ovens from an adjoining bakehouse. A real old-fashioned stock of crude and powdered drugs was maintained in the warehouse in a "drug room," which also served for the storage of sundries—for sundries were only purchased twice a year! Surplus stocks of patents were stored in labelled boxes in large cupboards. (The neighbouring bookseller also did a large trade in patents.) Adjoining this room came a "dry salt room," with its stock of heavy goods, such as saltpetre, resin, fuller's earth, honey, etc., all in casks or large containers; and with these were surplus stocks of tinctures and other galenicals, most of which were "home-made." The ground floor and cellars of the warehouse comprised the wine and spirit store and the equipment for conducting this side of the business. Paints, oils and colours found their home underneath the shop in another spacious cellar. The ironmongery portion occupied a separate building on the opposite side of the street.

Hours of business were comparatively good, from 8 to 7 on weekdays, extended to 10 on Saturdays, with intervals for dinner and tea; the half-holiday movement had not at the time come into being, but when about half through the apprenticeship a kindly disposed manager persuaded the head to grant a half-holiday once a fortnight. Ten days' holiday in the year was the allowance. The market day—Wednesday—was a busy time. An extensive farmers' business was done, and agricultural and veterinary preparations were home-made and home-packed. Imagine the writer baling from 100-gallon casks, "lant" in bucketfuls, with which to prepare a sheep dip, containing in addition arsenic and soda, which the farmers came for "loose,"

in two-gallon jars; seed dressing, too, formed, as the time for sowing came round, an important portion of my daily work, with mixing and blocking into 1-lb. paper parcels. "Physic," the stable name for the aloetic-purgating mass, was prepared in a large brass preserving pan in batches of 28 lb. at a time, and to this day I have never seen a mass which is better than the one made in those apprenticeship days. The melting was done over a small blacksmith's forge, *secundem artem* to a degree.

So through the range of the needs of a typical countryside; orders for worm balls, staling balls, special veterinary masses came in galore, and these items had to be made with speed and accuracy, and given a proper finish before sending out. Occasionally there were some of those ancient farmers' recipes—which date back one scarce venture to say how far—containing syrup of foxes' lungs, or crabs' claws, to be compounded with other ingredients. Plasters had a great vogue, and I should think almost every plaster which had had a place in any of the pharmacopoeias was kept in stock in roll form. These were sold either to weight or value—and were wrapped separately, for the purchaser wished to melt them with "other stuff": such customers were more than fastidious, but their purchases were profitable and their custom was regular.

Making Galenicals

Dispensing was not much in vogue, but what was lacking in this respect found compensation in the making of many galenicals, principally tinctures, the compound powders of the B.P., the moulding of suppositories, etc., and, lastly, the beating of pill-masses. Two pounds of antibilious pill mass or a like quantity of compound rhubarb pill mass were regularly beaten in the appropriate mortar, allowed to stand overnight, then rebeaten, before being weighed out, piped, rolled into pills, and kept in boxes sprinkled with light calcined magnesia. With reference to galenicals comes the remembrance of the large amount of laudanum and opium which was sold. Opium (the finest druggist's kind) was stored in a large tin, not unlike a deed box. A drug order could be made up at any time to the requisite carriage-paid value of £5 with opium, which was purchased in lots of from 7 lb. to 28 lb., according to the value ruling. Here is the manner in which it was used. The soft interior portion was taken out, weighed into one-drachm and two-drachm lots, rolled into cylinders, sprinkled with magnesia, and wrapped in $\frac{1}{2}$ -oz. papers labelled "Opium—Poison. . . ." It was no uncommon thing to sell a few dozen of these 3d. and 6d. packets during the week. The remaining outer portions were used for making *tinctura opii* in batches of two gallons at a time, which quantity would last for a week or a fortnight, according to seasonal demand. The mode of preparation was very simple. A pound and a half of the outer opium was cut into small pieces, treated with a gallon of boiling water, allowed to stand overnight and a gallon of s.v.r. added. The tincture remained macerating with frequent shaking until it was needed, filtered, and the marc pressed. Such was a laudanum of the late portion of last century, consumed regularly without any untoward incident, so far as the chemist was concerned. What present-day pharmacist would dream of having printed wrappers for opium?

This apprentice work, though copious, did not in practice become laborious; indeed, a little sympathetic consideration allowed me to indulge at odd intervals a taste for literature. I early recognised, in view of qualifying, the absolute necessity for maintaining my knowledge of Latin. This I kept going permanently by weekly readings of selections from Cæsar, Horace,

Ovid and Livy; but a weakness for the beauties of the Georgics and the *Aeneid* often tempted me, I fear, to give as much time to Virgil as I did to the other writers combined. Then to get a grip of botanical nomenclature came the decision to tackle Greek, not as a study but as an aid to the initial meaning of the words of Greek origin used in botany. A course through Smith's "Initia Graeca," supplemented by reading the four Gospels in this language, afforded word tuition which has been decidedly useful.

Yet my mother tongue was not neglected. Tastes, like inclination, will always differ; but I felt that even in reading there must be some direction in its pursuit. My line of thought suggested that initially it would be well to secure a general acquaintance with English literature, and then read those authors which I favoured most—a method which I still feel is the best to pursue, as affording a maximum of pleasure, within the limits of the time which is at the disposal of the active pharmacist. In this association may I confess a weakness for English lyric poetry? Country-born and country-fostered, the appeal of natural objects through the medium of poetry has a charm and attractiveness which never wearies. The great tragedy, the problem novel, the philosophic verse—all give way to the simplicity of lyric art, though I would include with these the great essayists from the time of Addison to this day—if only for the exquisite prose.

Field Botany

Then the weekly walks home took me over a few miles of the countryside. An unkempt country lane, chock full of untouched vegetable growths on the limestone wall; the chronology of the seasons told by the opening of the flowers which filled the space between the roadway and the hedge; the leaves with their harvest of microscopic fungi; in the near distance the copse or the wood, the home of many rare species, which I cannot stay to mention. What a help was Bentley's "Botany"! It is a great asset, particularly in country pharmacies, to be able to talk to customers with freedom and a practical acquaintance about soils, crops and allied subjects, based on the twin sciences—botany and geology. No facilities whatever existed in the little town to obtain education in any science; hence any apprentice was mainly dependent upon his personal efforts. This I found very trying in respect to a laboratory subject like chemistry. Good fortune, however, came along about the termination of the apprentice period, when a local manufacturer of technical chemicals offered the use of his works laboratory in return for a few little services I had rendered him; thus what might have been a blank in my studies was filled in by this reciprocal consideration. A few months after my friends learned that I was a Minor man.

Good fortune, or a strange circumstance, took me back to this scene of my youthful labours. A chance acquaintance mentioned that he was anxious to secure some information respecting a family marriage, but only the name of the contracting parties could be given. Could I help? Certainly. What search into past days is more full of interest than to pore over the pages of the parish registers? My quest succeeded. A recently disturbed tombstone attracted my notice in this same "Kirk-garth" during my search. It bore the name of my old master, who had passed away some months before my visit, full of years and of this world's good things. The inscription also bore the name of his father. Now the twain of them—good chemists both—have been called to the great account; but they rest, listening to the murmurs of the little river in which they had flung for trout, the gentle throatings of the birds in the elms above; in this eternal silence may the waywardness of a wayward apprentice be allowed to pass into forgetfulness and forgiveness.

THE report submitted at this year's annual meeting of the National Association for the Prevention of Tuberculosis, Tavistock Square, London, W.C.1, gives an illustrated account of the activities of the Association, together with donation forms.

Book-Keeping for Chemists

By S. Howard Withey, F.C.I., etc.

IX.—Preparing the Balance Sheet

As soon as the periodical profit and loss account has been passed by the auditor or otherwise approved, the balance of profit or loss should be transferred and the account closed. In the case of the chemist established on his own account, the amount representing the net profit realised may be transferred direct to the credit side of his capital account and retained for business purposes, or it may be transferred to the credit side of his current or drawings account and withdrawn by him as required. Where the capitals of partners have been definitely determined by deed or other partnership agreement their capital accounts should remain unaltered during the term of the partnership. The net profit of a limited company must be kept quite distinct from the share capital account by crediting the amount to a special appropriation of profit account against which will be debited the total of the dividends paid out and any other appropriations agreed to.

Before attempting to prepare a balance sheet it will be advisable to make out a list of all balances that remain open after the completion of the profit-and-loss account. This list of balances will prove the clerical accuracy of the work up to that stage. Included in this summary of ledger balances should be the total of the reserves and apportionments made at the date of stock-taking, the total of the sums paid in advance or covering a period extending beyond the balancing date being shown as a debit item, and the total of the accrued expenses as a credit item. It will be remembered that when preparing the trial balance for the purpose of verifying the correctness of the records made during the year, the value of the stock of drugs, patents, photographic materials, etc., was shown as a debit item, this figure representing the stock as at the beginning of the year, assessed at cost price, and corresponding with the debit balance of the stock account. Since preparing the trial balance, however, the value of the stock on hand at the close of the financial year would be ascertained, this figure being credited to the trading or profit-and-loss account for the purpose of arriving at the amount of profit made, or the extent of the loss sustained, and also debited to the stock account, so that in this second summary of ledger balances the value of the closing stock should be shown as a debit item in the place of the opening stock. Below is reproduced a list of balances as prepared before compiling the balance sheet at June 30, 1929:

	<i>Dr.</i>	<i>Cr.</i>				
	£	s.	d.	£	s.	d.
Cash in hand ..	116	2	8			
Cash at bank ..	328	17	4			
Sales ledger balances ..	105	4	3			
Purchases ledger balances ..				217	18	1
Stock, June 30, 1929	800	10	0			
Capital account, balance as at June 30, 1928 ..				5,000	0	0
Drawings ..	400	0	0			
Vending and bottle-filling machines, etc.	150	0	0			
Mixers, sifters, and trade utensils ..	125	10	0			
Leasehold premises ..	1,000	0	0			
Shop fittings ..	115	10	0			
Furniture, fixtures, etc.	102	8	11			
Motor transport, cycles, etc. ..	290	0	0			
Show cases, stands, etc.	100	0	0			
Goodwill ..	1,500	0	0			
Reserves and apportionments ..	184	18	6	29	0	5
Net profit, per profit and loss account ..				72	3	2
	£5,319	1	8	£5,319	1	8

Providing no errors have been made when tabulating the profit and loss account, or in summarising the figures, the debit and credit totals of the balances will agree with each other. All items enumerated in the debit column of the above summary will have to be treated as assets, and will be shown on the balance-sheet as such. The assets should be recorded on the right-hand side of the balance-sheet, but instead of appearing in the same order as in the summary, they should be shown in the order of their convertibility, i.e., according to the readiness with which they could be converted into actual cash, if necessary. The following is the correct order in the case of the chemist in business on his own account, and of the partnership of two or more chemists:—

Balance of cash in hand at the end of the accounting period,
Balance of cash at the bank at the end of the accounting period.

Money advanced by the chemist or the firm, and which is returnable either on demand or at very short notice.

Investments and securities of a gilt-edged nature, including British funds, corporation and county stocks, etc., quoted on the Stock Exchange.

Any other assets which could be converted into cash at once. Bills receivable.

Book debts outstanding.

Shares in companies or concerns that declare dividends.

The value of any drugs, etc., in the possession of agents. Stock on hand at the close of the period, valued at net cost prices.

Any other assets which could be realised at short notice.

Motor transport, carts, cycles, vans, etc.

Machines, plant, and equipment.

Business premises, freehold and leasehold land, etc.

Tools, implements, and appliances.

Machinery used for special purposes, plant units, etc.

Shares held to secure business, as distinct from investments.

Shop fittings.

Furniture, showcases, etc.

Goodwill.

Any other assets that are unrealisable except with the business as a going concern.

Sums which have been capitalised for the time being, or which are to be spread over a period and are really chargeable against the trading profits.

Any debit balance of the profit-and-loss account.
Any losses in other directions.

If the business consists of a small retail shop, the proper order of the assets is—cash accounts, book debts, stock, property, and other assets. The liabilities should be enumerated on the left-hand side of the balance-sheet, the correct order being:—

Amount due to bankers.

Bills payable.

Trade creditors.

Expenses accrued at the date of stocktaking.

Loans.

Reserves, reserve funds or sinking funds.

Capital account of the chemist, or the capital accounts of the partners

The balance-sheet incorporating the figures shown in the above summary would therefore appear as in the table at the end of this article.

The liabilities and assets of a business which has been converted into a limited liability company should be enumerated in the order of their permanence, the following being the recognised order, where applicable:—

Liabilities

Assets
Freehold and leasehold land and buildings
Shop fixtures and fittings
Machinery and plant
Loose tools, utensils, etc.
Transport
Stock
Book debts
Bills receivable
Cash at bank
Cash in hand
Investments and securities
Goodwill
Preliminary expenses

Registered capital

Subscribed capital

Mortgages

Debentures

Bank overdraft

Bills payable

Trade creditors

Reserves, etc.

Profit and loss (appropriation)

The registered or nominal capital of the company should be shown in an inner column and ruled off, being in the nature of memoranda and not to be included in the total of the liabilities.

<i>Liabilities.</i>			<i>Assets.</i>				
	£	s.	d.	£	s.	d.	
Sundry creditors	217	18	1	Cash in hand	116	2	8
Accrued expenses	29	0	5	Cash at bank	328	17	4
Capital Account :				Book debts	105	4	3
Balance at June 30, 1928 £5,000 0 0				Stock, June 30, 1929	800	10	0
Less Drawings 400 0 0				Motor transport, cycles, etc., less depreciation	290	0	0
	£4,600 0 0			Vending and bottle-filling machines, etc., less depreciation	150	0	0
Add net profit for the year 72 3 2	4,672	3	2	Leasehold premises	1,000	0	0
				Mixers, sifters, and trade utensils, less depreciation	125	10	0
	£4,919	1	8	Shop fittings, less depreciation	115	10	0
				Furniture, fixtures, etc., less depreciation	102	8	11
				Show cases, stands, etc., less depreciation	100	0	0
				Goodwill	1,500	0	0
				Payments in advance	184	18	6
					£4,919	1	8

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Condensation Products.—Process for the manufacture of organic mercury compounds by treating a hydroxide of a mercurised hydrocarbon with a phenol or derivative thereof, or a mercapto compound. (I. G. Farben-industrie, Frankfort-on-Main. 329,987.)

Photographic Cameras.—This invention has for its object to simplify and cheapen the manufacture of that kind of camera wherein the separate parts, as for example, the casing and lens carrier, are each made of one piece of sheet metal. (Bruno Mayer, Nürnberg. 330,304.)

Dry Milk Products.—Process for the production of a dried milk product having laxative properties, consisting in distributing phenolphthalein in a finely dispersed state throughout milk or a mixture of milk and coffee, cocoa and the like and drying the mixture. (Cow & Gate, Ltd. 332,047.)

Manufacture of Emulsions.—Apparatus for the manufacture of emulsions or dispersions, comprising at least two spraying devices causing the constituents to impinge upon one another or on a common impingement surface, at least one of the spraying devices being multiple. (Imperial Chemical Industries, Ltd. 331,928.)

Improvements in Hypodermic Needles.—This invention has for its object to ensure that the needle or the connection piece of the same is tightly sitting on the cone of the syringe and tightly packed even when the two instruments are of different origin and the dimensions of the conical parts are different. (Karl Emil Kober, Saxony. 316,516.)

New Books

Maxwell, W.—*Salesmanship*. 7½ in. by 4¾ in. Pp. 234. 5s. Pitman & Sons, Ltd., Parker Street, London, W.C.2. [A clever and amusing book which, once opened, is likely to be read to the last page. Its usefulness for British readers is limited by the fact that it is a revision of papers originally published in the United States, and by the further consideration that, in the author's words, "the conditions that exist in a busy drug store are about as unfavourable to the application of my theories of retail salesmanship as any conditions that could be imagined."]

Henley's *Twentieth Century Formulas, Recipes and Processes*. 8½ in. by 5¼ in. Pp. 809. 16s. Crosby Lockwood & Son, Stationers' Hall Court, London, E.C.4. [Several previous editions of this well-known work (which is printed in the United States) have appeared at frequent intervals. The present edition embodies revision and enlargement. The scope is wide, including such sections as Adhesives (33 pages), Cosmetics (20 pages), Essences and Extracts of Fruits (11 pages), Inks (14 pages), Photography (32 pages), and Varnishes (14 pages). Numerous cross-references and an index facilitate the use of the volume. Some of the titles in the list of works consulted need slight emendation.]

Williams, J. Prys. *Jones' County Court Guide*. 7½ in. by 5 in. Pp. 391. 10s. 6d. Effingham Wilson, 16 Copthall Avenue, London, E.C.2. [It is thirteen years since a new edition of this admirable work made its appearance, and in the present edition—the sixth—the many changes in County Court procedure that have been made in the intervening years are incorporated. This book is no mere guide to simple debt recovery; it is an ample treatise upon litigation as it is practised in the County Courts, whose jurisdiction is now exceedingly

wide. Nevertheless, the language of the book is so clear and the arrangement so logical that the layman will have no difficulty in understanding it. The book is, no doubt, intended mainly for the practitioner, to whose needs it is admirably suited; but it will prove no less helpful to the business men—and they are many—who conduct their own cases in the County Courts. An unusually ample index adds considerably to the value of the book. There is an appendix containing the schedule of court fees.]

Goddard, A. E.—*Organometallic Compounds, Part II; Derivatives of Arsenic*. Medium 8vo. Pp. xxviii + 605. 42s. Charles Griffin & Co., Ltd., 42 Drury Lane, London, W.C.2. [This work on the derivatives of arsenic, forming Part II of Volume XI of "A Text-Book of Inorganic Chemistry," edited by Dr. J. Newton Friend, deals with some 4,000 compounds, all of which contain arsenic linked directly to carbon, and is indicative of the number of arsenicals investigated in recent years, on account of their use in gas warfare; as insecticides, fungicides, and for pest extermination; and as compounds of therapeutic value. The various types of compounds have been grouped under definite headings, and this is perhaps as helpful an arrangement as possible, as obviously some compounds may belong to more than one class. Reference to chemical literature is given throughout the book, and a table, pp. xxii-xxviii, as in the other volumes of this series, lists the dates of issue of the journals. The subject matter falls into ten chapters, and treats the organometallic compounds in the following order: Chapter I, aliphatic arsenical compounds; chapters II, III and IV, deal with the aromatic compounds respectively, thus—arsines and arsonium compounds; halogenated and cyanoarsines; arsine oxides, hydroxides and sulphides; chapters V, VI, VII, are all on the arylarsinic acids; chapter VIII, arsenical compounds with carboxyl groups; chapter IX, arseno-compounds; chapter X, miscellaneous arsenical compounds. The designations of the compounds in the present book are those used in the original memoirs, "since," states the author, "any attempt to alter these in a work of the present description would only complicate matters." The author indicates the unsatisfactory state of the nomenclature of organometallic compounds, and it would appear necessary that a closer co-operation should exist between the leading chemical societies of the world if, in the future, the organometallic field is to be saved from a chaotic mass of names. Appendix I contains tables of physical constants for large series of compounds. Some investigators have described long series of compounds, the preparation of which is based on general methods, and owing to consideration of space the method is given in the text and the compounds placed in the appendix. Appendix II will indicate the rapidity with which this branch of chemistry is advancing, as it lists those arsenical preparations which have been prepared while the book was in the press. A name index, subject index (pp. 552-602), and a patents index complete the book.]



BRITISH PRIZE-WINNERS IN A COMPETITION RECENTLY ORGANISED BY J. G. MOUSON & CO., FRANKFURT, GERMANY, AT THE ENTRANCE TO THE FIRM'S FACTORY, WHERE THEY AND THEIR FRIENDS WERE SUMPTUOUSLY ENTERTAINED DURING A RECENT WEEK-END. MISS PEGGY O'NEIL ACTED AS HOSTESS, AND THE ATTRACTIVE PROGRAMME INCLUDED A VISIT TO COBLENZ.

Trade Notes

IN the coloured advertisements in this week's issue will be found announcements by the following manufacturers:—STAFFORD ALLEN & SONS, LTD., Cowper Street, London, E.C.2 (almond oil); BUTLER & CRISPE, 80 Clerkenwell Road, London, E.C.1 (hot water bottles); FASSETT & JOHNSON, LTD., 86 Clerkenwell Road, London, E.C.1 (agencies); HIRST, BROOKE & HIRST, LTD., Millgarth Mills, Leeds (druggists' sundries); THE LEYLAND & BIRMINGHAM RUBBER CO., LTD., Grand Buildings, Trafalgar Square, London, W.C.2 (hot water bottles); POTTER & CLARKE, LTD., 60 Artillery Lane, London, E.1 (catarrh pastilles); W. J. RENDELL, LTD., 15 Chadwell Street, London, E.C.1 (quinine pessaries).

LILLICRAPP'S PATENT HONE, a novel uranium glass apparatus for sharpening safety razor blades, is made and sold by Wood Brothers Glass Co., Ltd., Barnsley.

CYRINAL FOAMBATH.—William Edwards & Sons, druggists' sundriesmen, 14 Nile Street, City Road, London, N.1, are the distributors in this country for Cyrinal Foambath, the wholesale and retail prices of which are given elsewhere in this issue.

HOLIDAY SNAPSHOTS.—Johnson & Sons, Manufacturing Chemists, Ltd., Hendon Way, Hendon, London, N.W.4, who have recently announced the results of the first of this year's competitions, in connection with their Daylight paper, ask us to remind chemists that the closing date of the second competition—holiday snapshots—is October 31.

COATES & COOPER, 41 Great Tower Street, London, E.C.3, who are the agents for the products of the Battle Creek Food Co., state they are continually drawing the attention of the medical profession to Lacto-Dextrin, a food for changing the intestinal flora, and Psylla, selected and sterilised psyllium seed, which is used as an intestinal stimulant.

PEPSODENT.—The Pepsodent Co., India House, 3 India Street, London, E.C.3, intend again to focus public attention on their well-known tooth paste during the week September 8-15. Some new window-display material has been prepared, a supply of which will be forwarded to any chemist who sends in the coupon appearing in the company's advertisement in this issue.

DISCAPINES.—Thompson & Capper, Wholesale, Ltd., manufacturing chemists, Manesty Buildings, College Lane, Liverpool, have brought out under this name a new line of winter lozenges, one of the chief ingredients of which is pine oil. Discapines are pleasant to taste, attractively packed, and, with the aid of the showcard, it should not be difficult to arrange an effective display.

TOOTH-BRUSHES.—W. R. Speer & Son, tooth- and nail-brush manufacturers, 215 Dalston Lane, London, E.8, have brought to our notice their Static tooth-brush, supplies of which are available through the usual wholesale channels. This brush has a strong bone handle made in assorted shapes and each marked with a number denoting the pattern. The bristles are serrated, and can be supplied either with or without a tufted end, also in white, yellow or black. Each brush is in a transparent envelope, a dozen being packed in a flat hinged-lid box suitable for display purposes.

HIRST, BROOKE & HIRST, LTD., manufacturing chemists, Leeds, inform us that their showroom, which has been closed for the last week or so in preparation for a special Christmas display, will be opened again on September 1, and they invite chemists to visit it at any time. Afternoon tea is provided each day from 3 p.m. to 5 p.m. They are also publishing a Christmas list and a copy will be sent to any chemists who inquire for it. This is being printed in duplicate, one giving the trade prices and the other containing no prices, the second copy being for the use of chemists' customers. The company will send extra copies of the unpriced lists to chemists at cost price.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1930, p. 341.

(From "The Trade Marks Journal," August 6, 1930.)

- "TORSO"; for surgical apparatus, etc. (11). By M. C. Beaton, 287 Buchanan Street, Glasgow, C.1. 513,875.
- "MARTINEZ COLORGRAPH" with label design; for photographic paper (39). By M. Martinez, 10 Adelphi Terrace, London, W.C.2. B511,992.
- "POND'S CLEANSING TISSUES" ("Pond's" disclaimed); for tissue paper for removing cold cream (39). By Pond's Extract Co., 103 St. John Street, London, E.C.1. 513,932. (Associated.)
- "SEMLON"; for preparations for making beverages (42). By Stuart's (Sowerby), Ltd., Denby Place, Tuel Lane, Sowerby Bridge, Yorkshire. 513,984.
- "SUNBRUNOL"; for oils to prevent sunburn (48). By Macleans, Ltd., G. W. Trading Estate, Park Royal Road, London, N.W.10. 510,936.
- "PERMADYNE"; for hair dyes (48). By W. T. Pember, 129 Yonge Street, Toronto, Ontario, Canada. 511,435.
- "LILT"; for toilet preparations (48). By Evenod Perfumer, Inc., 580 Fifth Avenue, New York, U.S.A. 511,742.
- "RENUKLOK"; for perfumery, etc. (48). By F. Godfrey, The Renew Hair Institute, Crich Carr, Whatstandwell, Matlock, Derbyshire. 511,955.
- "PRESTOCAP"; for perfumes (48). By G. Boehm, 38 Moreland Street, Goswell Road, London, E.C.1. 512,445.
- "SHEENOLIFE"; for hair preparations (48). By J. Cameron, 1058 Cathcart Road, Mount Florida, Glasgow, S.2. 512,908.
- "AFFROLINE POMADE" with label design; for toilet pomade (48). By Blondeau & Cie, Ltd., Union House, St. Martin's-le-Grand, London, E.C.1. 513,578. (Associated.)
- "BALENGRO"; for all goods (48). By A. M. Steven, 54 Cloth Market, Newcastle-on-Tyne. 513,812.

(From "The Trade Marks Journal," August 13, 1930.)

- "LAKOSINE"; for chemicals (1). By B. Winstone & Sons, Ltd., 100 Shoe Lane, London, E.C.4. 512,041.
- "POTTER'S ZENSOUKU CURÉ" with design incorporating tiger with ball bearing letters "P & C" ("Potter's" and "P. & C." disclaimed); for bronchial remedy, etc. (3). By Potter & Clarke, Ltd., 60, 62 and 64 Artillery Lane, London, E.1. 507,208. (Associated.)
- "CAMEO"; for photographic films and platos (1). By Ensign, Ltd., 88 and 89 High Holborn, London, W.C.1. 514,676.
- "SEPOL"; for sedatives supplied in ampoules, etc. (3). By Etablissements Albert Buisson F. Jalot & Cie, 157 Rue de Sevres, Paris. 508,045.
- "SAL-U-TAS" with design; for salves and liniments (3). By Sal-U-Tas Company, Ltd., 442 St. Gabriel Street, Montreal, Quebec, Canada. 511,476.
- "PATEL'S AMARDHARA" with label design incorporating foreign characters; for a medicine (3). By A. J. Patel, The Nakasero Importing House, Main Street, Kampala, Uganda Protectorate. 510,455. (Associated.)
- "POMIES" with design incorporating portrait of the late Edouard Pomies; for a preparation for the treatment of nervous disorders, etc. (3). By A. Wakely, 41 Fitzroy Square, London, W.1. B513,084.
- "POHOLATUM"; for medicinal chemicals (3). By Po-Ho Sanitäts-Werk Hamburg Otto Joh. Jul. Witt & Söhne, 100 Hasselbrook Strasse, Hamburg, Germany. 513,385. (Associated.)
- "FAMOLAN"; for medicinal gland extracts (3). By D. R. Mawney, 11 Broadway, Madras, B. India. 513,433.
- "HOZONTENE" with silhouette athletic figure and sun rays; for medicinal chemicals (3). By Hough, Hoseason & Co., Ltd., Sun Buildings, Bridge Street, Manchester. 513,483. (Associated.)
- "TERECAM"; for medicated toilet paper (3). By G. E. O. Cave, Maiden Hall, Belstead Road, Ipswich. 513,923.
- "ADEXOLIN"; for medicinal chemicals (3). By J. Nathan and Co., Ltd., 16 St. Helen's Place, London, E.C.3. 514,360.

Marriages

DOBSON—VICKERS.—At St. Peter's Church, Bramley, Leeds, on August 21, Paul Dobson, Ph.C., 2 St. Peter's Mount, Bramley, to Annie Louise Vickers, "Larkfield," Bramley.

GARNETT—RAMSDEN.—At St. Luke's Church, Beeston Road, Leeds, on August 23, Robert Geoffrey Garnett, M.P.S., Northern Ireland representative of Burroughs Wellcome & Co., son of Mr. A. O. Garnett, Leeds, to Nora, only daughter of Mr. W. Ramsden, Leeds.

MACMASTER—DUNCAN.—At Holy Trinity Church, St. Andrews, Fife, on August 15, by the Rev. J. W. Baird, M.A., William Crawford Macmaster, M.P.S., eldest son of Mr. Thomas Macmaster, M.P.S., Partick, Glasgow, to Muriel Monica (Mona), daughter of Mr. W. Duncan, Kinghorn, Fife.

Deaths

BANBURY.—At 77 Dudley Road, Birmingham, on August 1, Mr. William W. Banbury, chemist and druggist, aged eighty-three.

CHURCHOUSE.—At Gough's Close, Sturminster Newton, Dorset, on August 14, Mr. Charles Herbert Churchouse, chemist and druggist, aged sixty-five. Mr. Churchouse had carried on business at Sturminster Newton for twenty years, and was a member of the Blackmoor Vale Lodge of Freemasons.

CLARKE.—At Bury St. Edmunds, recently, Mr. John George Clarke, chemist and druggist, aged fifty-eight. Mr. Clarke carried on business at 12 Carr Street, Ipswich, for some years, but eventually entered another business, retiring during the war.

DAVIDSON.—At the Volks Hospital, Cape Town, recently, after a long illness, Mr. Robert Davidson, M.P.S., aged sixty. The son of Captain Davidson, of Jahnshaven, Montrose, Scotland, he served his apprenticeship with Mr. Burrell, of Montrose, and, after qualifying, opened a business at Hawick. He went to South Africa in 1900, and opened a pharmacy in Plein Street, Cape Town, which he carried on up to the time of his death.

LOVELESS.—At Bath, on August 23, Mr. Edward William Loveless, chemist and druggist, 112 Newbridge Road, aged eighty-four. Mr. Loveless qualified in 1870 after studying at Bloomsbury Square, and commenced business on his own account at Twerton, Bath, in 1873. He removed to Newbridge Road fifteen years later, and carried on business there for the remainder of his life. Mr. Loveless was president of the Bath and District Pharmaceutical Association in 1908, and served on the Local Executive Committee of the British Pharmaceutical Conference when it met in the city in 1924. On that occasion he enabled us to place on record some interesting details of local business changes between the years 1863 and 1909 (*C. & D.*, 1924, II, 55). Mr. Loveless was Past Master of the Royal Albert Edward Lodge (906), a Past Reg. of the Provincial Grand Lodge of Somerset, and a Past Sen. Grand Warden of the Provincial Mark Grand Lodge. He was at one time a churchwarden at St. John's, Lower Weston, where the first part of the funeral service was held. The Bath branch of the Pharmaceutical Society of Great Britain was represented by Messrs. J. G. H. Hawes (chairman), W. H. Hallett, G. T. Kingston, and Luther Wilson. The Bath Insurance Committee and masonic lodges were also represented, and there were numerous floral tributes.

NICHOLL.—A cable from Winnipeg reports the death of Mr. Samuel Cheyne Nicholl, Ph.C., late of Belfast, aged seventy-three. Mr. Nicholl had been in Winnipeg for nearly twenty years; he retired in 1925. He passed the Licence examination of the Pharmaceutical Society of Ireland in 1880, and was for a considerable time in

Belfast in partnership with R. W. McKnight, now of Carlisle Circus; on the partnership being dissolved Mr. Nicholl carried on a pharmacy at 43 Donegall Place for several years, disposing of this to Mr. J. A. Bingham on his departure for Canada. He was also proprietor of the pharmacy at Connswater now owned by Mr. J. C. Culbert, Ph.C. Mr. Nicholl is survived by a widow, three sons and two daughters.

STEWART.—At 25 Maryfield, Edinburgh, on August 18, Mr. Peter Stewart, representative of J. F. Macfarlan & Co., manufacturing chemists, Edinburgh and London, for over thirty years.

TOWNSEND.—At Exeter, recently, Alderman William Townsend, senior partner of James Townsend & Sons, printers, Exeter and London. Alderman Townsend entered the City Council in 1909, and was Sheriff of the City in 1918. He filled other public posts, and was active in religious and philanthropic work.

WEBB.—At 1 Hanover Terrace, Kensington, London, on August 21, Sir Aston Webb, past-president of the Royal Academy and brother of the late Mr. E. Alfred Webb, Ph.C. (Evans Sons Lescher & Webb, Ltd.), aged eighty-one. Mr. J. H. E. Evans (nephew), Mr. H. E. Webb (nephew), and Mr. T. Edward Lescher, O.B.E., attended the funeral, which was held at St. Paul's Cathedral on August 25.

Personalities

DR. P. CASPARIS, Basle, Editor of the *Schweizerische Apotheker-Zeitung*, is in London on a brief visit, and is staying at the Regent Palace Hotel, W.1.

MR. W. BREDT (W. Bredt, Ltd., London, E.C.3; and Knoll, Ltd.), who underwent a serious abdominal operation while in Germany last month, and whose life was subsequently in danger for many days, is now reported to be well on the road to recovery. It will be some weeks, however, before he will be able to return to the City.

MR. HERBERT SKINNER, Ph.C., a past-president of the Pharmaceutical Society, and Mr. THOMAS MARNS, a member of the Society's Council, are spending a holiday together in Switzerland. A postcard received with their signatures since our last week's issue appeared, indicates that they were then mountaineering on the Jungfrau, and we believe that golf is also included in their programme.

Wills

MR. GEORGE COWIE, late of 1 Northumberland Street, Edinburgh, chemist and druggist, left £1,061.

MR. GEORGE HERBERT BUCKLEY, of 171 Hagley Road, Edgbaston, chemist and druggist, left gross estate of the value of £11,795, with net personality £8,024.

MR. JOHN NEALE, of Britannia Place, Ulverston, chemist and druggist, who died on May 1 last, has left estate of the gross value of £3,976 12s. 9d., with net personality £657 17s. 11d.

MR. EDMUND HORSFIELD, of Swanland House, Swanland Avenue, Bridlington, retired chemist and druggist, left estate of the gross value of £15,862 3s. 10d., with net personality £15,594 5s. 11d.

MR. JOHN HENDERSON SCROGGIE, J.P., M.P.S., of 2 East Newington Place, Edinburgh, retired chemist and druggist, who died on May 11 last, left personal estate in Great Britain valued at £12,738 13s. 9d.

MR. GEORGE BARKER, of The Hollies, High Street, Hampton-on-Thames, Middlesex, dentist, chemist and druggist, who died on June 10 last, left estate of the gross value of £4,935 4s. 1d., with net personality £2,487 13s. 7d.

Observations and Reflections

By Xrayser III

Common Sense

is just what is required now in any consideration of classifying poisons and potent drugs generally, and it is therefore refreshing to learn that "The Lancet" has been commenting in a rational way upon the subject (*C. & D.*, August 23, p. 264). Association of the two words "dangerous" and "drugs" has always appeared to me a mistake, particularly in view of the fact that originally no drug was affected by the Dangerous Drugs Regulations in all circumstances. The question of quantity had to be taken into consideration, so that preparations of certain strengths were exempt, while stronger ones were liable to special restrictions. It would have been much better had the Dangerous Drugs Acts been named the Narcotic Drugs Acts, as their scope would thus have been made clearer and the risk of creating undue prejudice against the use of valuable remedial agents could have been avoided. Your comparison of different applications of the word "dangerous" is distinctly illuminating, and it would be amusing if the matter were not so serious to find that substances more easily obtainable than those classed as "dangerous drugs" are included in the category of "dangerous poisons." Surely a poison ought to be regarded as something requiring greater care in its distribution than a mere drug.

Keeping of Poisons,

in the sense of storing them, is a subject on which it should hardly be possible for any layman to give the chemist and druggist points. Your correspondent, who refers to an incident at the August meeting of the Pharmaceutical Council, on the subject of the storage of poisons (*C. & D.*, August 16, p. 250), is probably correct in his assumption that the proceedings of Home Office inspectors dictated Mr. Rowsell's question and accounted for the diffidence of Mr. Melhuish's answer. It should have been possible for the Pharmaceutical Society's official head to speak with greater definiteness on the point. My own recollection is clear that the intention of our predecessors who drafted the regulations was that the custom prevailing in the leading pharmacies of the time should be followed generally. That custom was to adopt all three methods of storing poisons at one and the same time, the degree of potency deciding as a rule which method should be used for any particular poison. My recollection goes back to the time when we were in the Privy Council's black books because we had refused to adopt the regulations formally, though many of us adopted them in practice. Then came the time when, much belatedly, we did at last adopt them formally, and their application has been general ever since.

Just to Remind,

I should like to inform "Follow On," who writes on educational problems (p. 250), that his idea of what should be was what the founders of the Pharmaceutical Society intended should come about. It was originally proposed that none but pharmaceutical chemists should own pharmacies, and that the "Minor" examination should exist for the qualification of assistants. That accounts for the apparent anomaly of a "Minor" and a "Major" examination, both of which are of equal value so far as the keeping of open shop is concerned. The intention of our predecessors was entirely admirable, but the British Parliament of 1868 thought the lower qualification sufficiently met the public needs, with the result that the anomalous position commented on was brought into existence.

Was It a Want

of courage or was it a lack of knowledge that prevented Briggs, the designer of the Pharmaceutical Society's diploma, from making Paracelsus a supporter of the arms instead of Ayicenna? The two historical personages to perform the function of sustaining pharmacy are surely Galen and Paracelsus. The Galenic cult and the Paracelsian cult are two complements of pharmaceutical practice throughout the civilised world. Eighty years ago Paracelsus was regarded for the most part as a mountebank, and consequently would not be considered respectable enough to be associated with the budding society whose incipient activities had to be commended to the orthodox leaders of the medical profession. The true character of the great reformer has only been satisfactorily unfolded during the intervening years by medical and chemical historians. Even now there are but few people who have had opportunities for gathering knowledge of his teachings and practice in medicine otherwise than by means of the expositions of those who have from time written about him at large. The translations into English of any of his works are few and difficult to come by. Paracelsus wrote but little himself; the many works attributed to him were probably dictated by him and written by his disciples either during his lifetime or subsequently. It is said that he saw only seven of his works printed. Siloranus states that he was responsible for between 200 and 300 works, of which it is certain that many were spurious. At the end of the sixteenth century John Huser made the first critical examination of these works and published an edition, at Cologne, of those he reckoned as authentic; the number of them is 106, but many of this collection are now regarded as being of doubtful origin.

The Student

of pharmaceutical history may obtain a fairly good first-hand view of the pharmaceutical teachings of Paracelsus from a little book published in 1656. It is entitled "Paracelsus, his Dispensatory and Chirurgery. This Dispensatory contains the choicest of his Physical Remedies, etc. Englished by W. D." The translator and editor has gathered, into this duodecimo of over 400 pages, matter taken from a number of the works of his author. The introduction, written by W.D., is a vindication of Paracelsus against the ignorant scandals which at that time obscured the effect of his revolt from slavish and undiscriminating adhesion to the Galenic traditions. A conspectus of its contents will provide the means for viewing the points of contact Paracelsus made with practical physic. It contains his treatise of the medicinal properties of the two kinds of hellebore; an account of the strange virtues of arsmart (the water pepper—*Polygonum Hydropiper*—a herb much valued by Robert Boyle and Culpeper). There are sections treating of the medicinal properties of corals, St. John's wort, loadstone, turpentine, ebony, mummy; the "Wonderful Medicinal virtues of Vermin" (serpents, adders, snakes, toads, spiders, earthworms and crab-fish). The chemical preparations which are discussed by the author are salt, brimstone and copperas. There are three treatises dealing with wounds, ulcers, apostumes and one "concerning long life." The mystical teachings of Paracelsus concerning salt, sulphur and mercury are well known. I imagine that this aspect of his utterances has done something to hide the practical quality of his mind, perhaps largely because many of his commentators have been mostly interested in occult matters. This little book reveals another side of his character, as may be judged from what he has to say about the great importance of common salt for the sustenance and preservation of life of every variety.



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Editorial Articles

Civil Liability for Employees' Misdeeds

QUESTIONS of liability for the doings of assistants and other employees frequently arise in the experience of pharmacists, wholesale and retail alike. Much discussion has centred, in regard to this matter, about a famous ruling given in 1867 in the case of Barwick v. English Joint Stock Bank, where it was laid down that .

"the general rule is that the master is answerable for every such wrong of the servant or agent as is committed in the course of the service and for the master's benefit, though no express command or privity of the master be proved."

That was a case arising, as lawyers say, in tort—a case of deliberate wrongdoing. The plaintiff was supplying a customer of the Bank with oats on credit to enable him to carry out a Government contract; and the Bank's manager gave an undertaking that the customer's cheque on the Bank in favour of the plaintiff should be paid on receipt of the Government money for the oats in priority to any other payment "except to this Bank." He omitted, however, to tell the plaintiff that the customer owed the Bank £12,000. When the Government cheque arrived the Bank sought to apply the whole of it to the discharge of their overdraft. The Court, however, held that they could not do so, as they were liable for the false representation made by their manager. That decision was based upon two principles: (1) That an employer must be answerable for all acts done by his employee within the scope of his employment; and (2) that a principal cannot differentiate between what is done by his agent so as to stand by what is of benefit and repudiate what is detrimental to his own interests. Now liability may arise either in contract or in tort; and although the principles enunciated above are applicable to both, and although contract and tort are often interlaced, it will be convenient to deal with the two departments of law separately. First, then, in order that an employer may be liable for contractual engagements made by his employee with third parties, it must be shown that the employee had express authority to enter into the transaction in question. As a general rule, the employer is not liable without proof of such express authority, but it may be implied from the circumstances of a particular case, and then the employer will be held responsible. For instance, where an employee is appointed to manage a business it may be held that he would be entitled to order necessary stock. A was a man who owned a certain beerhouse. He put in B to manage it, paying him a weekly wage, supplying him with beer and cigars to sell and forbidding him to buy either beer or cigars from anybody else. B,

however, disregarded this and ordered some cigars from C. C supplied them and charged them to B; but discovering later that B was A's agent he sued A for the amount. The Court held that as the cigars were such as a manager of a business of this character would have power to order as incident to the management, A was liable for the price (*Watteau v. Fenwick*, 1893). Generally, however, if the employee, without the knowledge of his master, goes beyond his instructions, the employer will not be liable merely because the employee had the lesser authority given him. A branch manager may have authority to purchase necessary things for the shop; but he must only buy for cash unless he has authority to buy on credit. If without that authority he purchases on credit his employer will not be bound to pay; and even if the employer unknowingly benefits by the employee's contract that does not make him liable. This was decided in 1902 in the case of *Wright v. Glyn*, where a coachman ordered forage for his master's horses and ran up a bill for several months without disclosing the fact that his master paid him a weekly sum to include the cost of forage. The Court there held that the mere relation of master and coachman did not carry implied authority for the latter to pledge his master's credit, and that there was no evidence of the master having held out his coachman as having such authority. On the other hand, if the employer knows that his employee is making a contract on his behalf and does not interfere, he will not be allowed to repudiate liability afterwards on the ground that the employee had no authority. An employer may ratify an unauthorised contract—in which case he will be liable upon it; or, on the other hand, he may enforce it, and obtain the benefit for himself. Once he has ratified it, however, he can no longer plead want of authority, or excess of authority on the part of his employee. He must, however, be in full possession of all the facts; and if an employee, who is authorised to buy goods, buys them on credit in excess of his authority, the fact that the employer retains and uses them (not knowing that his credit has been pledged) does not make him responsible. Persons dealing with an employee are entitled to assume, in the absence of notice to the contrary, that an employee has the authority usual for a person in his position to possess. Consequently the employer who places him in that position is said to be holding him out as having that authority. For instance, where the matron of a hospital ordered meat for the use of the hospital it was held to be inferred that in so doing she acted under the direction of the management committee and that they intended to pay. In cases falling under this heading there are three matters to be taken into account, viz., (a) the employer's business; (b) the status of the employee; and (c) the nature of the contract. Where the employer carries on a particular business the presumption will be that the employee has the authority usually possessed by employees of his own grade or standing. If the making of particular contracts is incidental to his ordinary duties, the employer will be bound by any contract within that ambit; and if (as in the case of the manager of a branch pharmacy, for example) the employee is given a general authority to conduct the employer's business, that is an authority much wider in scope.

Finally, the contract made must be of such a nature as is incidental to the business and to the duties which the employee is required to carry out (as in the hospital matron case). On the other hand, an employer will be bound by all contracts which fall within the apparent scope of the employee's authority, even though he may have expressly limited that authority or entirely forbidden its exercise; because the public cannot know, unless specially warned, that the authority ordinarily given to an employee of that particular class has been withdrawn. Where an employee has been exercising authority to make contracts on his employer's behalf his employer may be held liable upon contracts made even after the employment has come to an end. Notice must therefore be given to all persons with whom the employee had authority to deal that the authority has been withdrawn. Such authority, as we have seen, may have arisen expressly, or by implication, or by reason of the conduct of the employer in ratifying the contracts made. In the second place, a tort may be said to be a wrongful act or breach of duty committed by one person against another. Broadly, the law requires that no person shall, without lawful excuse, violate the legal rights of another. An act may involve both contract and tort where it arises out of particular relationship; but the broad distinction between an action of tort and an action of contract is that in the former there is a duty arising out of the relationship between the parties, quite apart from contract, while in the latter the duty arises exclusively from a contract. The liability of an employer in tort may arise in various ways. If he expressly orders or authorises his employee to do a particular act which in itself is tortious, or if he ratifies a tortious act done, the liability is direct and obvious. He may, however, become responsible if the employee does something that is lawful but does it in such a manner as to cause injury. Then the employer cannot escape by urging that he had not authorised his employee to do it in that particular way, nor that it had been so done not in his own but in his servant's interest. It is not necessary, however, to prove any express authority from the employer. He is liable for torts of every kind committed by his employee for his (the employer's) benefit, so long as they are committed in the course of the employment and are within the apparent scope of the employee's authority. The denial of any authority to commit torts or even an assertion that the employee had been expressly forbidden to do the particular act alleged will be of no avail. The principle upon which the law is founded is that since the employer has put the employee in a position to do certain things on his behalf he must be held responsible for all such things as are done if they have been done in furtherance of his business. It is possible, therefore, to collect the essentials which go to make an employer responsible for his employee's tortious act. They are these:—(a) The act done must arise out of the duties he is employed to discharge—in other words, it must be within the scope of his authority; (b) it must be done in the course of his employment on his employer's business—not when he was occupied on his own affairs; (c) it must be done with the intention of benefiting the employer and of furthering his interest.

Unsettlement in Resinous Products

SINCE the end of May last there has been a further severe decline in the prices of turpentine oil and resin. The market conditions then prevailing were outlined in the *C. & D.* (pp. 667-68), and the main factors in the situation indicated at that period have since become accentuated, and it is yet premature to assume that the worst of the depression has been seen. As regards turpentine, the progress of home consumption has been quite satisfactory, as indicated by the London deliveries, which for the year to date have been in excess of the corresponding figures for last year, as later shown. There has been no parallel for the present cheapness of turpentine since the low range of values seen in pre-war times, allowing, of course, for the duty levied for well over two years, which represents approximately 4s. per cwt. The spot price quite recently fell to about 33s. 3d., inclusive of the duty, so that since the end of May there has been another depreciation of 5s. per cwt., compared with the beginning of March, while the total set-back from the highest figure of 44s. reached late in February (at the termination of the old crop movement) amounts to as much as 11s. per cwt., in contrast to the comparatively small fluctuations recorded during the whole of last year at between about 49s. and 42s. Calculations as regards this season's American crop yield would seem to have gone entirely astray. Instead of the notable decrease, which had been generally looked for at the outset, especially in view of a spell of cold weather in the turpentine belt, the crop movement developed largely since the spring. Commenting on the crop prospects in our previous survey referred to, we suggested in regard to forecasts of a decreased yield "that it was as yet premature to attach much importance to such a contingency as a good deal depended on weather conditions within the ensuing two months." Moreover, we stated that there was just a possibility that instead of a notable decrease, the prospective yield might turn out quite as large as for the previous campaign. At all events, indications have been in the direction of another "bumper" yield, while reports coming to hand for several weeks past frequently mentioned that the receipts in the southern markets have largely increased and that available stocks there have been sharply on the up-grade and are now apparently considerably in excess of this time last year. Spasms of weakness thus became inevitable in the American markets, although there were rallies at Savannah from the lowest figure already recorded before mid-July at 36 cents per gallon, or the lowest level touched since the year 1913. An upward movement to 40 cents, indeed, was short-lived, and was followed by another break to under 36 cents last week, which was quickly reflected in the European markets. The Savannah quotation, which reached 51½ cents in January, thus indicates a depreciation of over 30 per cent. There is no doubt, of course, that, apart from excessive stocks, the American position has been seriously weakened by the drastic curtailment of manufacturers' operations in the paint and varnish trades, as in other industries. In the circumstances, therefore, the question of cheapness is rather overlooked, for the time being at any rate, or so long as surplus stocks in the United States continue to increase, while the fact remains that the outlet can only be stimulated by a low price. Given a trade recovery in the United States in the autumn, or a replenishment of stocks by trade, distributors or consumers, this may eventually exert a steady influence on the position, but meanwhile the outlook is not very encouraging, and the American market is apt to fall away again, although it cannot possibly be far from "bottom." We give below the London statistics and price comparisons under date of

August 2, from which it may be gathered that the position at this end is by no means unhealthy, although it is entirely dominated by the trend of the American market:—

In barrels	1927	1928	1929	1930
London total deliveries to Aug. 2	83,697	69,208	64,102	66,054
London stocks	38,223	30,744	15,236	21,478
London landings	3,324	3,056	7,209	467
Afloat to London	8,000	2,088	Nil	Nil
Total London visible supply	49,547	35,888	22,445	21,945
London spot price, per cwt. ..	s. d.	s. d.	s. d.	s. d.
	40 9	41 9	42 9	36 3

The American position of resin is even more unsatisfactory than that of turpentine oil, there having been a persistent accumulation of stocks, chiefly due to a much reduced outlet and the c.i.f. quotation of the best pale grade, which stood at about 20s. 6d. at last year's close, is now 15s. 11½d., but in the lower levels more interest has sprung up latterly.

Where Grocers May Not Sell Aspirin

We learn from a recent issue of "The Journal of the American Medical Association" that the Supreme Court of Iowa, U.S.A., has held that the sale of aspirin by "a corporation having no licensed pharmacist among its officers and employees" justifies the issue of an injunction to restrain it from doing so. In the case cited, a company "engaged in the retail marketing of groceries, meats and food commodities" had kept aspirin for sale without including a licensed pharmacist among its "officers" and employees. A district court granted a restraining injunction at the suit of a county attorney: the company appealed. We need not recapitulate all the arguments used on behalf of the appellants, as the report gives the substance of two sections of the Iowa code, 1927, which read together would need abnormal ingenuity to circumvent:—

Section 2519 . . . provides that any person engaging in any business or in the practice of any profession for which a licence is required, without such licence, may be restrained by permanent injunction. A licence is required for the practice of pharmacy, and Section 2578, paragraph one, of the code, provides that persons who engage in the business of selling, or offering or exposing for sale, drugs and medicines at retail shall be deemed to be engaged in such practice.

The purport of these sections is so clear that it only remained for the respondent or his counsel to dispose of such contentions as that aspirin is a proprietary medicine and that it is not a drug. An attempt to obtain a declaration that another section of the code having some bearing on the subject was unconstitutional fared no better; the injunction of the lower court was, with some modification, affirmed. On the face of it, one of the conditions of sale of aspirin in Iowa would appear to be parallel with that of Section 3 (4) of the Poisons and Pharmacy Act, 1908, requiring the registration of a superintendent before a corporate body can undertake the sale of scheduled poisons in this country.

DIET IN THE TROPICS.—The West African Section of the London Chamber of Commerce has sent us particulars of a forthcoming book by Dr. J. N. Leitch, pathologist to the Sierra Leone Government, on the subject of dietetics in the tropics. It is understood that publication is temporarily delayed for lack of funds, a difficulty which will no doubt be overcome.

BUSINESS VISITORS TO CANADA.—The Department of Overseas Trade, 39 Old Queen Street, London, S.W.1, has issued a booklet prepared by Mr. F. W. Field, H.M. Senior Trade Commissioner in Canada, giving information on a variety of subjects which should contribute to the personal comfort of the visitor and render him conversant with matters that are common knowledge to our American competitors.

A Centenary Worth Recording

By John Humphrey, Ph.C.

IT is just a hundred years since the exemption in favour of "known, admitted and approved" remedies sold by chemists and other privileged retailers was clearly outlined by an expert on the subject of medicine-stamp duty, and that fact seems of interest. The expert in question was a barrister-at-law named George Price, of the Middle Temple, who was busily engaged on behalf of the drug trade, in the year 1829, in defending cases in which penalties were demanded for selling medicines un-stamped, or, as Jacob Bell expressed it, "in resisting the persecutions of the Commissioners of Stamps and common informers." He crystallised his views upon the subject of liability to medicine-stamp duty in a book or pamphlet published in 1830 under the title "Abstract of the Medicine Stamp and Licence Acts, with Observations on their Legal Effect and Operation."

Price explained clearly how provisions in the earlier Medicine Stamp and Licence Acts were replaced by those of 52 Geo. III, and quoted at length the various special exemptions in the latter, including that which allows entire drugs, recommended as medicaments, to be sold unstamped "by any surgeon, apothecary, chemist; or druggist, who hath served a regular apprenticeship, or by any person who hath served as a surgeon in the navy or army . . . or by any other person whatsoever licensed to sell any of the medicines chargeable with a stamp duty." This he held to imply that grocers, oilmen, hucksters, and other unqualified persons cannot legally sell even simple medicines for the prevention, cure, or relief of any human disorder or complaint without previously taking out a licence. With regard to the further exemption in favour of compounded preparations "known, admitted, and approved of, in the prevention, cure, or relief of any disorder, malady, ailment, or complaint incident to, or in anywise affecting the human body," Price pointed out that this clearly permitted the sale of such preparations unstamped "by any surgeon, apothecary, chemist or druggist as aforesaid" when no proprietary right in the medicine was claimed, though grocers and other unqualified persons can only sell such preparations after they have been stamped, even though they are holders of the necessary licences.

An Analysis

According to Price, there were four classes of persons contemplated by the Legislature, and three sorts of things as within the scope of the medicine-duty laws. The four classes of persons he enumerated as follows:—

(1) Those who by apprenticeship to surgeons, apothecaries, chemists and druggists (and surgeons of the Navy and Army) derive the qualification of skill from discipline, for engaging and practising in the sale of drugs and medicinal preparations;

(2) Persons procuring the legal or statutory qualification of a licence;

(3) Patentees of proprietary preparations in medicine, quack, or nostrum-makers; and

(4) All unlicensed vendors of drugs and medical compounds.

The three things contemplated by the Legislature were:—

(1) Drugs vended entire;
(2) Preparations and compounds of those of legitimate character; and

(3) Such of the latter as are of spurious or empirical character.

Of the four classes of persons contemplated by the Acts, he declared that the first class are exempted from all the restraining and disabling provisions, whether by clause or schedule, except that of the impost of duties on the third sort of things, which are the subject-matter of the Statutes, if sold by them. The second class of persons, he stated, are rendered capable of vending the first-class of things without payment

of other duty than that imposed on the necessary licence; they are also authorised to sell the second sort of things on payment by them beforehand of the duties imposed on their sale by law, and to sell the third sort of things received from the owners or compounders, when stamped as having paid the duty. The third class of persons consists of all original vendors, makers or proprietors of patent medicines (as they are termed) and empirical nostrums, whether patent or not; in other words, proprietors, makers and first vendors of the third sort of things above enumerated.

Thus, it was pointed out, the Statutes on the subject have made a clear distinction between persons qualified by education and persons authorised by licence to sell medicines. Those sold by the former, it was insisted, are not subjected to duty, but those sold by the latter are. It was further pointed out by Price that the Statutes have also created a similar distinction between medicines made and sold as nostrums and such as are not. Preparations made and sold as nostrums are subjected to duty, whilst the same compounds sold in the regular course of trade are not.

A Modern Development

So much for this hundred-year-old exposition of the law by Price, to which my attention was directed by the late Dr. B. H. Paul, when, in 1902, I was preparing for publication an article explaining the incidence of medicine-stamp duty. As a consequence, I explained in that article ("P.J.", February 22, 1902) how there appeared to be an exemption in favour of chemists and other recognised qualified persons, but that the extent to which it applied had never yet been defined; also that whilst E. N. Alpe, in his "Handy Book of Medicine Stamp Duty," had expressed the opinion that the applicability of the exemption was small, there was reason to regard his reason for that opinion as insufficient. The question remained—what were the classes of preparations that were not intended to be taxed when sold by chemists and other specially privileged persons? In conclusion, I ventured the suggestion that "it would be well if the Pharmaceutical Society endeavoured to get this point decided in a court of law."

As it happened, the Council of the Society made no move in the matter, but one of its members, the late Mr. (afterwards Sir) William S. Glyn-Jones, came to inquire what authority there was for the statements in my article, and was referred to Price's book, a copy of which he was able to consult in the British Museum Library. Convinced that existence of the chemist's privilege, so far unclaimed, was capable of proof, Mr. Glyn-Jones decided to put the matter to the test, and he announced his intention at a meeting of the Western (London) Chemists' Association. The question of ways and means was answered by the establishment of the Drug Trade Appeal Fund.

It is a matter of history that the High Court, to which the case was carried on appeal after the summons had been dismissed at the Thames Police Court, held that a medicine sold with such a description on the label as that used by Mr. Glyn-Jones was exempt from stamp duty when sold by a duly qualified chemist and druggist. It is also a matter of history that the same Court decided, in the case of Ransom v. Sanginetti, that pure gum pastilles were liable to stamp duty when labelled with the words "Influenza. Delightfully soothing to singers and public speakers." The judgments in these two cases were taken into consideration simultaneously by the Board of Inland Revenue, with the result that official acceptance of the "known, admitted and approved" principle was qualified by withdrawal of an important concession. It has always been a moot point whether the loss sustained by chemists in this direction did not outweigh the gain resulting from the case of Farmer v. Glyn-Jones.

Domestic Medicine in England in the Seventeenth Century

THE end of the seventeenth century saw the dawn of a reasonable faith in the professional physician and apothecary. Before the days of Willis and Sydenham, the empiricism of the practitioners of physic was of the same order as that of the layman, and differed in scarcely any degree from that practised by the lady of the household in which a still-room was found. With the advent of systematic clinical medicine, with its carefully recorded observations for comparative purposes, a new era—the era of scientific medicine—began. To estimate the changes brought about, it is only necessary for us to compare the drugs and preparations included in the pharmacopeias of the early part of that century with those in the official publications issued in the early part of the following century. The change was a profound one. The earlier books may be regarded as a museum of the medical curiosities gathered throughout the preceding generations, and are hardly distinguishable from the treasured recipe books of household physic handed down from mother to daughter in every family of substance. The seventeenth century is of considerable significance in the history of medicine as being the close of an epoch. It is also of interest because it has transmitted to us records wherefrom we may learn what were the medicines our great-grandmothers employed in the days when physicians' physic was compounded of elements of which the origin was often repulsive and the preparation generally fantastic and not infrequently grotesque.

Family Medical Lore

From time to time THE CHEMIST AND DRUGGIST has noticed MS. recipe books which have fallen into the hands of some of its readers. One of the best known of these is the "Arcana Fairfaxiana," ably edited by the late Mr. George Weddell. This volume covers the period from the early part of the seventeenth century to almost the end of the eighteenth—a matter of probably 160 years. Of printed books, most of which are now rarely seen, the following are typical and are similar to each other to a very considerable extent:—"A closet for Ladies & Gentlemen" (1608—there were several later editions), "Queen's Closet Opened" (1655—many later editions), "Gentlemen's Cabinet Unlocked" (1650), "Ladies' Cabinet Opened by the Right Honourable & Learned Chymist Lord Ruthven" (1654). In addition there were two books not unfamiliar to chemists, namely "Modern Curiosities of Art & Nature, Composed and Experimented by Sieur Lemery, Apothecary to the French King" (1685); and "Choice & Experimental Receipts in Physick and Chirurgery . . . Collected by the Honourable and truly learned Sir Kenelm Digby . . . translated out of several Languages by G[eorge] H[artman]" (1668). There is another volume of that period which is much less frequently seen than any of the foregoing, and for that reason it will serve as an example, and will perhaps be interesting on its own account. The editor followed the fashion of his (or her) day in furnishing a title page of good advertising quality; it reads:—

"*Natura Exenterata: or Nature Unbowelled* by the most Exquisite Anatomizers of Her. Wherin are contained Her choicest SECRETS digested into Receipts, fitted for the Cure of all sorts of Infirmities, whether Internal or External, Acute or Chronical, that are incident to the Body of Man. Collected and preserved by several Persons of Quality and Great Experience in the Art of Medicine, whose names are prefixed to the Book. Containing in the whole, One thousand seven hundred and twenty, very necessary for such as regard their Owne Health or that of their friends . . . London . . . 1655."

The address to the reader is signed "Philiatros." From the title-page it might seem safe to assume that the collection was formed by a similar process to that often adopted for the production of books of amateur cookery recipes. This method may have been used in part; but many of the names given in the catalogue are those of people who cannot be brought within an ambit of that order. There are about too in the list, which is called "A Catalogue of such Persons of Quality, viz., Knights, Doctors of Physick, Gentlemen, Countesses, Ladies and Gentlewomen, &c., by whose Experience these Receipts following have been approved." It contains a number of titled people and a fair proportion of physicians. The compiler has made free with the recipes attributed to Sir Walter Raleigh, Sir Kenelm Digby, Aquapendente, Paracelsus and Fernelius. Many of the "cures" have been taken from other publications; but there are some which were supplied from private collections. One such is interesting, as it seems to provide an indication that the identity of the editor was not altogether veiled when the book was published; this prescription is said to be by "Mrs. Birch my mother." The number of recipes is extraordinarily large; and the two indexes are very full; the book is not a large one (6½ inches x 3½), but it contains over 500 pages. The thorough way in which the indexes were made renders it possible to get some idea of the comparative incidence of the ailments prevalent at that time. "Stone" must have been a widespread affliction; there are twenty-seven remedies recommended for it. Ague was then very common, and the plague, which was an almost annual visitant for the first sixty years of that century, occupies a prominent place in the list. Like all similar books it contains a large number of preparations for eye-troubles—sore eyes, hot eyes, bleared eyes, red eyes, eyes with a "stiany," "blood-shotten" eyes, and "pin and web," "Dropsies," "falling sickness," "gout," "yellow jaundice," bites of mad-dogs, piles, ringworm, toothache, "morphew," "impostumes," "felons," "cankers," "consumptions" and the affliction then called "the mother" or "fits of the mother" were among the more general ailments provided for.

Some of the Remedies

Some specimens of the remedies will serve to show that the "Medicinal Experiments" of Robert Boyle and other collections published forty or fifty years later than our volume represent a considerable advance in the simplification of domestic medicine, although these later remedies appear to us to be very crude. These following are typical "cures."

"*A Dyct Drink against the King's Evill, or for any other that will take Physick, if a child have any bunches or Kirnels about them.* Take plaister of Froggs without quicksilver, and Paracelsus, of each an equal quantity, spread it upon Lynnen Cloath, prick it full of holes, and change it but once a fortnight, and take the Dyct drink according to directions. Take a quarter of a pound of Guyacum, two ounces of Sarsapirilla, set it on the fire with a gallon and a pint of Spring water, let it simper on a soft fire twelve hours, then put into it an ounce of Harmoniaick, as much Amnyseed, as much Licoras sliced, let it infuse till it comes to a pottle or a little more, then put an ounce and halfe of sona in it, and let it boyle once through, take it from the fire presently, put into it halfe an ounce of Rubarb sliced, Cowslip flowers, Bettony flowers, Rosemary flowers of all one handfull, a quarter of an ounce of Cynamon bruised, then take it from the fire and cover it close twelve hours, then straine it with a coarse Cloath betwixt two and put it into bottles, put the ingredients into the pot againe, and put a pottle of smale Beer into it, and cover it, let it stand til the first be drunk up. You must drink a good draught in the morning, an houre after take some Broth. . . You must not send this Bill to the Apothecaries but only a Note with the Names of the things."

The apothecary was apparently not a person to be trusted in respect of his compounding ability, or he was to be suspected of appropriating prescriptions. It will be noticed that it was known that a porous plaster was to be preferred to the non-porous variety. The personal atmosphere belonging to the private recipe book assists the reader in sensing the Pepysian period in a remarkable degree. For instance, this recipe "for the Dropsie" is an example:—

" Give the Patient twice or thrice a day a Glistier (only) of Tobacco in an Instrument made for that purpose, which you may have neer St. Bartholomews Hospital, or at any Turners.—Approved on Mr. Edward Lacking the Minister of Limfield [? Limpsfield] in Surrey by the Lady Capell 1646."

One of the most curious remedies it contains for epilepsy is:—

" Take the jaw bone of a man or a woman and beat it into a fine powder, and if the woman having the falling sicknesse then use the jaw-bone of a man; and if it be a man; then use the jaw-bone of a woman, so much of the

Chymicall Characters,	
24 Grains	one penny weight.
20 Grains	a Scruple.
3 Scruples	a Dram.
60 Grains	a Dram.
8 Drams	an Ounce.
Saturn, Lead.	Tepurife.
Venus, Copper.	Salt Peter.
Mercury, quicksilver.	Salt.
Antimony.	Salarmoniaky.
Arcenick.	Tartar.
Allum.	Blood.
Vinegar.	Fyre.
Vinegar distilled.	Ayre.
Aqua fortis.	Water.
Aqua Regis.	Earth.
Wax.	D.y.
Pot-ashes.	Night.
Oyle.	

PAGE FROM "NATURA EXENTERATA" (British Museum)

powder as will cover a sixpence, put it into wine or any other liquid thing which you shall like of, and drink it; you may use it as often as you will, but especially at spring and fall."

The matter-of-fact manner of such a recipe makes one wonder if these weird drugs were easily obtained and from whom? It was assumed that when required they would be at hand. The prescriber's kind consideration in letting the patient know he (or she) can take the quite ordinary physic in something "which you shall like of" is really funny. A cough medicine altogether remote from present-day methods of treatment is the following:—

"Take a quarter of a pint of Malmsey, and a good quantie of fresh butter and a Nutmeg, and put it in a fair dish; so boil it on a chafing dish of coales till it come to be a salve, and so anoint your stomach with it against the fire; then take a Colewort leafe and hold it against the fire, and take a little butter and melt it, and with a feather rub it over the leafe, and so lay it to your stomach, and it shall cure you. *Probatum.*"

Although we have the assurance that this procedure has been successful, a dispassionate reader would ask what was the number of cures in 100 cases. The odd trial must have produced a fluke. In looking through collections of old formulas, over and over again we meet with those for the treatment of wounds of which the

chief ingredients are oil and wine. For a goodly proportion of these it may be accepted that the scriptural story of the Good Samaritan is responsible. Here is an example:—

"Christ his Balme to cure wounds. Take of Oyl Olive one pint, of old red wine three pints, mix these and distil them, add thereto the liquor of *St. John's* wort six ounces, *minimum* four ounces, distil the whole for a month in *Balneo Marie.*"

Weird Concoctions

Another "most precious oil called Oleum Magistrale" contains similar ingredients, together with carduus benedictus, dragon's blood, olibanum and Venice turpentine. The value attaching to sacred origins develops in strange directions; it is only a short step from the devout to the superstitious, especially when ill health and bodily accidents are in question. It is not remarkable, therefore, that the editor included a piece of magic in his treatise and gave as a remedy for a bleeding wound this:—"Write these four letters A.O.G.L. with the blood of the wound, about the wound." There was not much probability of this professed cure being efficacious, because the letters are not correct. This medical charm was much valued in the Middle Ages; but the proper form was A.G.L.A., or sometimes written A.L.G.A., being the initial letters of a Hebrew phrase associated with the name of God. The Kabalists greatly esteemed it as a healer of wounds. Seventeenth-century ladies appear to have been quite as anxious to preserve their complexions as their modern grand-daughters, and no whit less willing to take great trouble to achieve their desires. The work contains many recipes for preparations to secure a fair face. Of these one example will serve, although it is not the most expensive nor complex:—

"The Receipt of the Lady Savill's Water to wash her face with, sent for out of Italy. Take a great Limbeck, and put into it 1 lib. of Snail Water, 1 lib. of white Rose Water, 1 lib. of Lemond Water, four ounces of Bean flower water, four ounce of white Tartar, four ounces of the powder of Calke, two ounces of Gum Tragaganth in powder, four ounces of Rice in powder, as much of French Barley, one pound of new Milk, the Whites of thirty Eggs, 1 lib. of Honey, put them all into a silver or earthen Basin and beat them."

Philiatros had a high opinion of a "Doctor Martyn a Kurnebeck" and included 25 pages of his prescriptions, all of which are typical of the professional ones of his day. One of them will show how practical, and even modern, was the German physician. It is for

"Cakes of Licorice to lay under ones Tongue to stay the tickling cough. Take fine starch one ounce, roots of Orris two drams, Gum Tragaganth in Rose water dissolved, Juyce of Licorice of either one dram, Ginger foure scruples, Musk four grains, pouder of Licorice two drams, with Hysope water, make rolls or little eakes, which you shall hold under your tongue."

It might have been expected that there would have been included a number of the strange cures from Alexis of Piedmont; there are only one or two. One remedy bears the name of Thomas Fuller—surely Dr. Thomas Fuller, "the great Tom Fuller," as Pepys called him. Besides the medical recipes there are many other classified ones treating of herbs, distillation of waters, angling (with a description of baits), dyeing, making network and lace, knitting hosiery, breeding horses, perfumes and pomanders, and a few cookery recipes.

The testimony of the published books mentioned in these notes is not altogether conclusive as to whether this class of physic was in general use, and it does seem that there should be some evidence in contemporary writings as to how folk stood affected by domestic physic and physician's physic. Concerning the latter, it is abundantly clear that the medicos and their concoctions were a mark for the ridicule of the writers and dramatists of the day. The household remedies do not come prominently into the picture, as they were not suitable instruments for the wits to use wherewith to raise a laugh. If we look into literature of a more intimate nature, such as the diaries of Evelyn and Pepys, we may get some corroborative evidence that domestic remedies were employed.

Insurance Act Dispensing

Record of Matters concerning Chemists' Interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Burnley.—It was reported to Burnley Insurance Committee, at a recent meeting, that four tests of drugs and appliances had been made. The chairman considered the standard of dispensing was such as not to warrant any reference to the Pharmaceutical Committee. He had received a letter from the Ministry of Health to the effect that whenever a chemist's case was referred to the Pharmaceutical Service Subcommittee and a penalty imposed, they desired to be informed of the amount of remuneration paid to that chemist during the preceding year.

Essex.—The quarterly meeting of the Essex Insurance Committee was held recently. The Finance Subcommittee reported the following payments:—To chemists, on account of drugs, etc., £11,674 for the quarter ended June 30. The action of the Subcommittee was approved. The Medical Benefit Subcommittee submitted the following statistics in regard to prescriptions issued during the quarter ended March 31, with comparative figures for the preceding three years:—

Quarter ended	Number of prescriptions	Total cost of prescriptions	Average total cost per insured person
March 31 1930	382,088	£13,284 0s. 9d.	10.16d.
1929	469,114	£16,510 19s. 3d.	13.40d.
1928	357,595	£12,934 9s. 9d.	11.13d.
1927	412,046	£14,878 3s. 5d.	13.46d.

The cost of insulin for the year was £285 12s. 4d., against £330 2s. in 1929. Serums and vaccines cost £55 0s. 1d., against £41 16s. 6d. The report was adopted. The chairman submitted the report of the Pharmaceutical Service Subcommittee, which dealt with cases referred to them for investigation under the scheme for testing drugs and appliances. It was stated that the Subcommittee do not think it was ever contemplated that the Central Department should revise decisions come to by the local bodies in cases in which the parties concerned did not appeal; and it appears to them that the practice is one, along with many others, which shows not only disregard to the work performed by the local committees, but makes it abundantly clear that the local bodies are, in the eyes of the Department, of little or no account. It was moved that copies of the report be sent to the Ministry of Health and the National Association of Insurance Committees, with an intimation that if the present procedure of reviewing and modifying the decisions of Insurance Committees by the Ministry be continued, it will not be possible for the members of the committees or of the pharmaceutical profession to investigate questions arising under the scheme for the testing of drugs and appliances. The motion was carried unanimously.

Gloucester.—It was reported to the Gloucester Insurance Committee on July 7 that the analyst's certificates in respect of three test prescriptions had been considered, and that no further action was necessary. The chairman said he was extremely pleased that the results were as satisfactory as in the past. Chemists in Gloucester were doing remarkably well.

Herefordshire.—At the quarterly meeting of the Herefordshire Insurance Committee, held recently, the income and expenditure account for 1929 was presented, and included the following amounts:—Practitioners' fund, £16,592; chemists' fund, £3,280. It was pointed out that the cost of administration was decreasing. Arising out of a request by an insured person who has removed from an address in her doctor's "dispensing" area to one in his "prescribing" area that she should be allowed to continue to obtain her medicines from the doctor, the Committee had had the opinion of the Panel Committee. They found that the medical

benefit regulations precluded an insurance doctor from dispensing for an insured person who lived less than one mile from the nearest insurance chemist, and recommended that the insured person be informed that her request could not be granted. The West Midlands Joint (Pricing) Committee's report stated that the number of prescriptions priced for 1929 was a record.

Herts.—At a recent meeting of the Herts Insurance Committee, the chairman said that the cases of two chemists had been before the Pharmaceutical Service Subcommittee, who recommended in one case that the chemist be admonished and in another that the sum of £1 1s. be withheld. The first recommendation was carried. In the second case the chairman said that this was the cost to the Insurance Committee of the error. One of the suggestions made by the chemist was that he made up this mixture in a graduated measuring glass, and that if he held it a little out of the vertical position that might have thrown him out. The second recommendation was approved. Dr. Sturge, referring to a report on the testing of drugs and appliances, asked whether it was not a fact that a number of samples were found correct and that the margin of error was very small. The chairman said that was so.

London.—At a meeting of the London Pharmaceutical Committee, the following officers were appointed:—Chairman, Mr. W. E. D. Shirriff; Vice-Chairman, Mr. B. Abelson; Secretary, Mr. G. A. Tocher. The retiring chairman (Mr. A. H. Jenkins) was accorded a hearty vote of thanks for his services during the past year. Letters were received from the Ministry and the Retail Pharmacists' Union concerning the increased dispensing fee for Dangerous Drugs Act preparations, also particulars relating to the Drug Fund, 1930, and the new regulations in connection with the Drug Advisory Committee's report. The report of the Central Checking Bureau for the month of March showed that the margin of error in pricing was 0.02 per cent. The secretary reported, *inter alia*: The following comparative figures for the period January to April, 1929, and 1930:—

	1929	1930
Number of prescriptions	3,783,293	3,012,205
Cost of ingredients .. £54,131 7s. 5d.	£41,747 15s. 7d.	£54,791 13s. 1d.
Average cost of ingredients	3.43d.	3.33d.
Average cost of dispensing fees	4.54d.	4.36d.
Number of persons on list	1,833,257	1,887,804
Average number of prescriptions per person	2.06	1.60

With regard to preparations disallowed in the London area it was anticipated that action would be taken by the Insurance Committee at an early date. Steps were being taken for the inclusion of a note in the National Formulary with regard to the use of short titles. A complaint had been received regarding shortage in supply of medicine. Upon investigation it was found to be unsubstantiated, and the complainant tendered apologies for the misapprehension. The secretary's report was adopted. The Chemists' Service Subcommittee reported particulars of two meetings at which nineteen cases were considered under the testing scheme. Nine chemists were cautioned, eight were censured, and in the remaining two cases no further action was taken.

SCOTLAND

Ross and Cromarty.—It was reported to the Ross and Cromarty Insurance Committee at a recent meeting that all the samples of medicines and appliances officially taken last year conformed to standard. For the quarter ended March 31, 3,198 prescriptions were issued at a cost of £188.

Zanzibar Clove Industry

THE annual report of the Department of Agriculture, Zanzibar, for the year 1928, commenting on production, states that the year was eventful in the history of the clove industry on account of the fiscal changes which took place, and the conclusion of a succession of four large crops and the beginning (and in part the harvesting) of the smallest crop for sixteen years.

The quantity of cloves brought in during each of the past thirty-three seasons is tabulated, and a succession of four very large crops (July 1924 to June 1928) is unique. Production in this period amounted to 28.1 lakhs of fraslas against an average of 20.6 lakhs in the five preceding periods of four years, and 21 lakhs of the immediately preceding period. Previously in the four seasons, July 1913 to June 1917, 26.2 lakhs were brought to town, and this latter period there were two exceptionally heavy crops and two average crops. Before the end of the record period in 1928 the price of cloves had fallen. The following table gives the quantities brought into the town of Zanzibar, in groups of four seasons:

Seasons	Quantity in 1,000 fras.	Value in lakhs	Average price per fras. in Rupees
		Rs.	Cts.
July to June :			
1896-1900 ..	1,413	75.50	5 34
1900-1904 ..	1,155	81.58	7 06
1904-1908 ..	2,068	198.42	9 60
1908-1912 ..	2,015	186.86	9 28
1912-1916 ..	2,243	226.77	10 09
1916-1920 ..	1,898	300.04	15 80
1920-1924 ..	2,105	406.46	19 30
1924-1928 ..	2,810	436.34	15 33

From the table the conclusions drawn are that there is evidence that the trees are still in full bearing, that during the last period have produced more wealth to the country than ever before, that there are indications of a greatly increased world demand. Apart from seasonal variations during the twenty years from the middle of 1904 to the middle of 1924, the average production of four-year periods has been remarkably steady, and has been accompanied by a continuous rise in price; the consequent fall requires careful consideration. The conclusion is drawn that the world's markets are saturated with an annual production of 5½ lakhs of fraslas at a price of Rs. 19½ per frasla, and that a fall in price will occur if more is placed on the market. Madagascar production has increased rapidly, and the extra 7 lakhs of fraslas Zanzibar has put on the market during the four seasons 1924-1928 does not represent quite the whole of the surplus. There is every reason to expect production to resume its normal level, and unless Madagascar rapidly increases or the markets fall, the price should regain the figure previously reached. With regard to the 1928-29 crop, although accurate statistics are not available, imports show that the July 1928-June 1929 crop was about 200,000 fraslas, and that the price rose to Rs. 28-30 cts. per frasla, which, with the duty in cash added, means Rs. 33-90 cts. per frasla f.o.b. The succeeding large crop (computed to be 8 lakhs of fraslas) has maintained a satisfactory level, and nearly half-way through the harvest was about Rs. 18 to 19 per frasla f.o.b. The clove deliveries (in fraslas of 35 lb.) for the agricultural year July-June have been as follows:

	Zanzibar	Pemba	Total
July-June :			
1923-24 ..	75,027	236,767	311,794
1924-25 ..	240,952	520,490	761,442
1925-26 ..	219,192	392,622	611,814
1926-27 ..	203,843	529,186	733,029
1927-28 ..	190,370	500,382	690,752
1928-29 ..	74,828	125,740	200,568

It is interesting to revert to the four seasons, July 1913 to June 1917, when 26.2 lakhs of fraslas were produced. The following season, 1917-18, was a small one (2.98 lakhs) with high prices about Rs. 19. Then came the enormous crop of 1918-19 (8½ lakhs), which sold at over Rs. 14 per frasla. Buyers and sellers will take thought on this—four large crops, one very small and one unusually large crop with a well-maintained price. Will history repeat itself and see a small crop follow this one with prices rising to a record figure as they did in 1919-20?

Geographical Distribution of Exports MARKETS

Regarding the markets absorbing production, precisely where the cloves go to or what happens to them cannot be stated. It has not been ascertained what quantity is utilised in the chemical industry, but it is erroneous to suppose that the greater proportion of the production goes into the still for the manufacture of clove oil. According to Mr. V. H. Kirkham, director of agriculture, during the past thirty years the East has taken half of the crop. Taking the British India market, and in the past two or three years with the Dutch East Indies and Straits Settlements, the position is as follows:

Period	East Indian market	Period	East Indian market
1897-1900 ..	Per cent.	1913-16	43.5
1901-1904 ..	47.3	1917-20	51.1
1905-1908 ..	46.7	1921-24	41.6
1909-12 ..	38.3	1925-28	53.0
Av. 16 years	44.45	Av. 16 years	47.55

The above figures indicate the position as regards the largest oriental markets, but they do not take into account shipment direct to other countries in Asia. The increase from 44.45 per cent. to 47.55 per cent. in the average consumption of this market during the two periods indicated is not necessarily an indication that this market is expanding. It is possible that cloves enter the Dutch East Indies and Singapore by other routes than via Bombay, and that the consumption has not actually increased. There are indications that the oriental market has expanded, as indicated by the following figures for the distribution of clove exports during the year 1928:

Continent	Quantity in fraslas
Asia ..	3,52,566
America ..	83,824
Europe ..	60,592
Africa ..	5,725
Australasia ..	3,222
	5,05,929

The figures for Africa include 4,045 fraslas for Egypt and 400 fraslas for Djibouti, which in neither case will represent the ultimate destination. Thus, Asia has taken seventy per cent. of the year's export. Exports comprised a large quantity of the 1927-28 crop, selling at low prices, and in the second half of the year the new 1928-29 crop and a considerable proportion of hold-over selling at high price. The year's export of 5,05,930 fraslas was valued at Rs. 86,78,185, an average of Rs. 17-15 cts. per frasla.

Vanillin Industry Market

Manufacturers of vanillin from cloves feared competitive methods of manufacture were endangering their position. With the rise in the price of cloves in 1928 the position in England became untenable, as vanillin manufactured from guaiacol was offered on the market

below the actual cost of the cloves which would have been required for its production. Vanillin *ex* guaiacol was offered at 13s. 6d. per lb., while 11 lb. cloves, which would be required for the manufacture of 1 lb. of vanillin, were costing more than 15s. This position became so acute that manufacturers made it clear to the Government that unless they could obtain their raw material at a certain figure it would be impossible for them to continue manufacture from cloves. This resulted in a rebate of the whole or part of the clove duty (according to the price of cloves) utilised in the manufacture of vanillin, subject to certain conditions.

There seemed to be an indication that an extra seven lakhs in four years had brought the price down Rs. 3.75 per frasla, i.e., a 33½ per cent. increase in quantity brings the price down (when at Rs. 19.30 over 19 per cent. Supposing the average crop is divided as follows:—Spice market, 4,00,000; vanillin market, 1,20,000; total 5,20,000. Over a period of four years this quantity can be sold at Rs. 19.30 per frasla, but if the vanillin market be lost the spice market has a surplus of 30 per cent. thrown upon it, and the price might fall about 17 per cent., the expected drop being from Rs. 19.30 to Rs. 16 per frasla. This fall in price represents a loss of Rs. 17,16,000, whereas loss in revenue by making a rebate of Rs. 3.30 per frasla on 1,20,000 fraslars is only Rs. 3,96,000. If the consumption of the vanillin market has been less than the 1,20,000 fraslars per annum, the loss would be proportionately less. It is thought that if an average price of Rs. 16 per frasla could be maintained the industry would be safe.

Regeneration of the Industry

In the first half of 1928 there was a great depression in the clove industry, the price falling to Rs. 11½ per frasla duty-paid, that is the producer was obtaining only Rs. 8½, or owing to local marketing arrangements being unsatisfactory (in Peimba particularly) even as low as Rs. 7 per frasla. At such a price the producer cannot carry on indefinitely, and opinion is expressed from time to time that a more reliable staple crop should be found to replace cloves. Left to itself the industry must certainly deteriorate in the course of time. The clove plantations established by the Arabs a century ago were established systematically, and to maintain their value and productivity must be regenerated systematically, that is to say, the bearing trees of fifty years hence must have an opportunity for proper development. The necessity for Government action was realised, and in 1922 a scheme was put into operation whereby a bonus was granted upon each seedling planted, payments being made at the end of the first, third and sixth years. In 1926 notice of termination of the scheme was given, as it was realised that it was not a satisfactory method of systematic regeneration. Notice in 1926 could not terminate the scheme before 1932, but by 1928 claims poured in and the work of sealing and checking was in arrear. It was then decided to make a composition payment in all plantings and bring the scheme to an end quickly. The greater part of the paying off was accomplished in 1928, and final payments have probably been made by the end of 1929. The director of agriculture states that the fundamental error of the scheme was the adoption of the seedling as the subject for bonus, instead of an area of land.

The Clove Growers' Association

was founded in 1927 to regulate the cost of production by fixing wages, to control the market, to obtain funds for the systematic regeneration of plantations, developed considerably in 1928, and at the beginning of that year it was decided to commence operations upon the control of the market. It had originally been decided to increase the bonus on bearing trees (rebate on the clove duty) from 5 to 7½ lakhs. The council of the Association agreed that instead of increasing the bonus in trees the additional rebate money should be paid on produce brought into the Association. Commencing with the new crop in July 1928 it was estimated that

it would be quite possible to give half-a-rupee per frasla. The crop, however, was small, and the bonus would have amounted to one rupee per frasla. Policy was changed, and instead of an increase in bonus the clove duty was reduced and the Association was thus left without funds. This change of policy was a setback to the development of co-operative marketing in this country, but to the individual producer the payment of the clove duty at the moment of export is an advantage. Previously the Government took a quarter of the crop and sold weekly in public auction, and the price depended on the competition. Competition and fixing of price now occurs before duty is paid; this acts advantageously to the producer, who now himself disposes of the whole of his produce instead of three-fourths of it as formerly. The new method of payment is an advantage to the producer, but it would not appear that reduction of the amount payable in lieu of cash bonus is anything but a loss. Whoever paid the greater part of the duty under the old system, the report goes on, it is fully obvious that the consumer pays it now, and the following figures are given to support the statement:—

Month	Average price in Zanzibar	Price f.o.b.		Duty
		Rs.	Cts.	
1928—July ..	19 76	23	16	3 40
	17 82	21	22	3 40
	18 55	21	95	3 40
	21 51	24	91	3 40
	24 74	28	34	3 60
	24 10	27	70	3 60
1929—January ..	27 26	30	86	3 60
	27 02	30	62	3 60
	28 02	33	62	5 60
	25 41	31	01	5 60
	26 07	31	67	5 60
	26 13	31	73	5 60

The two objects in view in putting the Association in control of the market were to ensure that all producers got a fair price for their cloves, and, to hold over a surplus from a heavy crop so that producers should have a more regular annual return.

Government Plantations

The Government plantations have undergone much more replanting than the majority in the country, and the proportion of trees under ten years of age to that of fully bearing trees would give the impression that regeneration was fairly efficient on the plantations. There are at the present time 29,500 clove trees under ten years of age on the Government Zanzibar plantations. The census of old trees is not yet complete, but the last count, about two years ago, gave 111,000 bearing trees on these particular plantations. The stock under ten years of age is therefore 21 per cent. of the total. If the economic age of the clove tree be taken at sixty years there should be 16 per cent. of the trees under ten years of age on a plantation. The unfortunate fact is that a very large proportion of young plants are not developing into good trees owing to the adverse effect upon them of the shade from the adjacent old trees. The young stock is very disappointing in quality though adequate in quantity. Clear felling and systematic regeneration will be started at the end of the 1929-30 harvest on one plantation at least. The state of young clove trees on Government plantations is tabulated in the report:—

— .	3 year	4-6 year	7-10 year	Total
Selam Estate ..	2,663	1,041	862	4,566
Machui Estate ..	974	1,580	4,521	7,075
Kizimbani Estate ..	1,940	2,370	4,706	9,026
Dole and Masingini ..	6,633	1,939	51	8,623
Mtoni Estate ..	189	52	—	241
Total .. .	12,399	6,982	10,140	29,521

1 frasla = 35 lb. 1 rupee = 1s. 6d. (nom).
1 lakh = 100,000 (written 1,00,000).

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in grading, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

28 Essex Street, W.C.2., August 28

ALTHOUGH complaints about the paralysis of business and adverse economic conditions are as loud as ever, there are not a few authorities in the financial and industrial world looking for an improvement following the holiday period. Continued easy monetary conditions, although considered practically assured for some time, do not necessarily mean much as to the development of industrial enterprise, which largely depends on a revival of confidence. There was some indication of a more cheerful feeling on Wednesday in Stock Exchange circles, which was helped by more encouraging American financial and industrial reports. Moreover, the figures of unemployment were reckoned to an appreciable extent. Commodity prices are still very low, but given better surrounding influences such as referred to, sentiment would improve and pave the way for a revival, while in certain commodities, there seems to be more disposition to make provision against forward requirements. This even applies to sugar, the undertone in which is slightly better, while rubber has shown a little more resistance despite the further increase in stocks. Shellac has been inclined, however, to renewed dullness from the recent good rally. Business in pharmaceutical chemicals continues slow, but quoted prices continue to be maintained, although in a number of instances they are being undercut. Citric and tartaric acid and cream of tartar met with a slow sale. In crude drugs, senega is again dearer. Matto Grosso ipecacuanha is nominal in the temporary withdrawal of first-hand offers. New crop Spanish ergot is difficult to buy and is dearer. Balsam tolu is easier to arrive. Among industrial chemicals no general improvement in the demand is reported. Formaldehyde has been in slightly better demand; makers of chlorates of potassium and sodium have reduced their prices by 10s. per ton from those ruling during the first part of this year. Among the fixed oils a number of further reductions are reported on a dull market. These include coconut, cotton, palm, deodorised palm kernel, rape, soya, wood and linseed oils. Turpentine is dearer on balance. In the metal group, Chinese antimony has a firmer undertone. Mercury is well maintained, and platinum has been reduced by home refiners.

Higher	Firmer	Easier	Lower
Bergamot oil Ipecacuanha (Matto Grosso) Senega Turpentine	Antimony (Ch. reg.) Arsenic Menthol	Balsam tolu Citronella oil (Cey.) Coconut oil Cotton oils Palm kernel oil (deod.) Rape oil Soya oil Wood oil	Gum acacia Linseed oil Palm oil Peppermint oil (Amer.) Pimento Platinum Potash chloride Shellac Sodium chlorate

Crude Drugs, etc.

ALOES.—For Curaçao it is unlikely that lower prices will be seen this season. Present prices are likely to rule, and spot is very firm. Good pale livers are 130s., ordinary 125s., manufacturing grades 110s., and c.i.f. 105s. t.o. Socotrine.—There are sellers of Bombay cakes, finest quality, at 7s., also good hard bright in cases (linen lined) at £5 10s. per cwt.

AMERICAN BOTANICALS.—The following are current spot values:—Bayberry bark, 6d. per lb.; black haw of root, 1s. 2d. to 1s. 3d., per ditto of tree, 10½d.; gelsemium root, 6d. per lb.; grindelia robusta, 5d.; lobelia herb, 5½d. per lb.; sassafras, natural selected, 1s. 1d.; wahoo bark of root, 2s. 3d. per lb.; wild cherry bark, thin green, 8d. down to 5d. per lb. for natural.

ANTIMONY.—The undertone is again stronger for Chinese metal with holders holding out for £27 10s., while e.i.f. terms for shipment have been raised again, ranging from £25 10s. to £26, and only few offers are reported. Chinese crude is hardly mentioned, being nominally about £22 10s. English high-grade regulus is at £46 to £46 10s., and good ordinary brands can be obtained down to £38. Chinese white oxide on the spot is worth about £31.

BALSAMS.—Tolu is easier at from 3s. 4d. to 3s. 6d. per lb. c.i.f. to arrive. On the spot, 3s. 8d. to 3s. 9d. is quoted.

BELLADONNA.—Root is 52s. 6d. spot, and Leaves are quoted at 47s. 6d. c.i.f. to arrive.

CHAMOMILES.—Very little business is passing pending arrival of new crop goods. First Belgian pickings, near at hand goods, best quality, are quoted at 105s. to 110s.

CLOVES are quiet at 1s. 0½d. per lb. spot for Zanzibar and 1s. 0¼d. c.i.f. for August-October shipment. Sales of Madagascar have been made at 1s. per lb. spot, with further sellers.

The landings in London of Zanzibar during the week ended August 23 were *nil* and the deliveries 32, leaving a stock of 776, against 1,530 in 1929 and 4,728 bales in 1928. The landings in London from January 1 to August 23 have been 6,130, against 5,034 in 1929, and the deliveries 5,361, against 5,891 in 1929. Landings of Madagascar in London during the week ended August 23 were *nil* and the deliveries 158, leaving a stock of 2,399, against 366 in 1929. From January 1 to August 23 landings have been 4,924, against 848 in 1929, and the deliveries 2,538, against 3,007 in 1929.

COP-LIVER OIL remains steady with a little more inquiry. Agents quote from 100s. to 102s. per barrel c.i.f. for finest 1930 non-freezing steam-refined Norwegian oil.

COLOCYNTR.—Best quality Syrian apples offer at 9d. per lb., and ordinary, part broken, at 7½d. Pulped is unchanged at 1s. for white and 9d. for good ordinary.

ERGOT.—The market is somewhat excited in Hamburg as regards Spanish and Portuguese. Russian and Polish is dearer. Spanish and Portuguese is quoted from origin at from 1s. 10d. to 2s. c.i.f. as to quality for old crop. New crop offers are difficult to obtain even at 2s. c.i.f., and 2s. 1d. to 2s. 3d. c.i.f. is indicated. On the spot Spanish and Portuguese is difficult to find, as the U.S.A. are buying here. Spot Russian is unchanged at from 9d. to 9½d. as to quantity.

GUM ACACIA is without material alteration. Kordofan cleaned sorts offer at 56s. per cwt. c.i.f. for August-September shipment, and natural at 54s. 6d. c.i.f. Spot values of Kordofan cleaned are from 65s. to 66s., and natural is somewhat scarce at 61s. Talha is quoted at from 37s. to 40s. on the spot, and to arrive at 30s. c.i.f.

HYDRASTIS is neglected at from 8s 6d. to 8s. 9d. per lb. on the spot.

IRECACUANHA.—First hand importers are temporarily off the market after having recently sold a fair-sized quantity of Matto Grosso for export at a low figure. This has had the effect of second-hand holders increasing their asking price to 11s. 6d. per lb. It is hard to find sellers on spot for Matto Grosso, and until the position is more definite prices are only nominal. Two bales were sold last week at from 10s. 6d. to 11s. There is no Johore here, all stocks having been cleared.

KOLA is unchanged. West Indian halves are 4d. African are slightly easier at 3d. per lb. spot, and at from 2d. to 2½d. c.i.f. for good quality ex Hamburg.

LIQUORICE JUICE.—We draw attention to a letter on p. 301, which shows that liquorice juice is being offered in London from Catania, Sicily, adulterated with the extract of the poisonous root "masticogna."

MENTHOL is firmer, both on spot and to arrive, with slightly more activity. Spot is 14s. to 14s. 3d. per lb. for Kobayashi-Suzuki, shipment price being from 13s. 6d. to 13s. 9d. c.i.f.

MERCURY.—There is practically no change in the market, which is well maintained, with signs of a further improvement in the demand on the spot. Prices remained at £22 to £22 2s. 6d. net per bottle according to quantity, and the c.i.f. quotation for shipment stands at £21 15s. for not less than 25 bottles. There seems to be an ample supply available to meet all requirements, and stability seems fairly well assured.

PEPPER is quiet at 7½d. per lb. spot for fair black Singapore. Lampung is 6½d. spot. To arrive, sales include July-August shipment at 5½d. and August-October shipment at 5½d. to 5½d. c.i.f. Tellicherry is 92s. c.i.f. Alleppy is 83s. c.i.f. White Muntok is lower at 8½d. spot, with sales afloat at 8½d. Sales for shipment include July-August at 7½d., August-October at 7½d. to 7½d. c.i.f.

PIMENTO is easier at 7½d. per lb. on the spot, and 58s. per cwt. c.i.f. for August-October shipment.

RUBBER is practically unchanged. Manufacturers during the past few days have been taking more interest in the market, and quite a fair quantity of off grades have been sold at very low prices. Certain grades are being quietly bought by dealers who are apparently taking advantage of the very low prices ruling of some of the lower grades. There is no further news to report at the moment on the restriction question, although cables continue to arrive from Eastern producers, who favour the introduction of a restriction scheme similar to the Stevenson scheme, which was previously in vogue. Arrivals last week totalled 1,586 tons, whilst deliveries were 1,192 tons, showing a further increase of 394 tons in the stocks. The London stock now stands at 80,618 tons, against 34,651 tons at the corresponding period last year. The Liverpool stock now stands at 29,673 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and September, 4½d.; October-December, 5d.; January-March, 5½d.; April-June, 5¾d. per lb.

SANDALWOOD CHIPS.—Good bold East Indian can be had at 75s. per cwt. on the spot.

SEEDS.—ANISE.—Spanish is 55s. and Russian 30s. 6d. per cwt. spot. CANARY.—Mazagân on spot is quiet at 27s. Tangier is also quiet at 25s. 6d. Morocco is unchanged at 25s. CUMIN.—Malta is 70s. for sifted and 65s. for fair average quality Morocco on spot is 55s. to 57s. 6d. For shipment Morocco is still quoted at 52s. 6d. c.i.f. FENUGREEK is firm on spot at 18s. 6d. to 19s. The new crop is of very poor quality, and is now quoted at 14s. 9d. c.i.f. CORIANDER.—Business last week was done at 9s. 3d. on the spot, sellers now asking 9s. 6d. to 9s. 9d. CARAWAY.—Dutch on spot is now offering at 33s. 6d. MUSTARD.—English is quoted at 26s. to 33s. per cwt. according to quality.

SENEGA.—Offers from the other side have been withdrawn, and the spot price is now 2s. 9d. per lb., but it is doubtful if this price has yet been paid. The crop is reported to be less than normal, and offers from the States are practically non-existent. Reports to hand state that the crop this year is "by far the shortest on record"—not more than one-fifth of a normal crop. On Thursday (11 a.m.) we understand that in one prominent London quarter, in reply to cable inquiry, no forward offers for September-October shipment were obtainable.

Senna.—A few parcels of new crop Timnevelly leaves have arrived, but are limited at higher prices. No. 2 are offering at 3½d., No. 3 at 3d., and common manufacturing at 2½d. per lb. No really fine No. 1 leaves of the new crop are yet available, and the market here is extremely bare of good quality. Buyers are inquiring for this grade, and up to 7d. per lb. is asked by holders for the small remaining balance of good green bold leaves of the old crop. The market is well supplied with old crop slightly faded leaves which are offering at 5d. for No. 1, 3½d. No. 2, 2½d. No. 3, and common stalky jungle quality at 2d. per lb. ex wharf London. Finest pale T.V. hand-picked pods offer at 6½d. to 7d. per lb., with dark quality available at 5d. per lb. ex wharf London. F.A.Q. and common manufacturing pods are extremely scarce, and the Continent have recently bought on the London market the bulk of the cheap parcels. To-day's value for common dark is 3d. per lb. with good f.a.q. offered at 3½d. per lb. ex wharf London. Fine bold pale green No. 1 Alexandrian pods are very scarce, and are likely to continue so until the next crop. Holders ask 4s. 6d. to 5s. per lb. for finest selected, with fair coloured smallish pods in plentiful supply at 2s. to 3s. per lb. The bulk of the shipments this season have been of low quality, showing a large proportion of very small and dull pods.

SHELLAC is easier at 97s. 6d. per cwt. for usual standard TN orange; fine orange is 115s. to 200s.; pure button, 130s., and AC cakey 110s. To arrive, sales include October-November shipment at 85s. c.i.f., with sellers of any September and September-October at 84s. c.i.f. Sales for delivery include October at 95s. to 83s. 6d., and December at 96s. to 93s. 6d. to 90s.

STRAMONIUM.—New crop leaves are offered at 50s. per cwt. c.i.f.

Essential Oils

STAR anise and bergamot are firm. Ceylon citronella is easier. American peppermint is weak. Spearmint is easier, and crop prospects are reported to be good. Wormseed is very firm at previous advanced rates.

ANISE (STAR) remains very firm. There have been several large inquiries for export on the market, it being

immaterial whether Chinese or Tonkin oil is supplied; the fact that these inquiries have also been sent to Continental centres has somewhat agitated the market. Spot prices are: drums and leads, 4s. 9d.; cases of tins, 4s. 7½d.; drums afloat, 3s. 9d. c.i.f.; cases of tins, 3s. 10½d. c.i.f.; for August-September shipment rather higher prices would have to be paid, comprising leads 4s. 12d., tins 4s., and drums 3s. 11d. c.i.f.

BERGAMOT is dearer at 10s. 3d. on the spot, and to arrive 10s. c.i.f. is quoted. A report is current of a movement in Calabria to stabilise prices under Government auspices in order to prevent undue competition among producers. It is felt among consumers that any fixation of prices would tend further to restrict consumption of the natural and so favour synthetic, the consumption of which is increasing, particularly when a bergamot "odour" without delicacy is wanted.

CASSIA is very slow of sale, and spot stock is ample. Spot is 3s. 7d., and to arrive 3s. 2d. c.i.f.

CIRRONELLA.—Ceylon easier at 2s. 1½d. per lb. spot and 1s. 9d. per lb. c.i.f. to arrive. Java is quoted at 2s. 1d. c.i.f., and on the spot 2s. 4d. per lb.

CORIANDER.—Double rectified Hungarian is quoted at 16s. 6d. per lb. spot.

GERANIUM.—For Bourbon at first hand spot sellers ask 17s. 6d. per lb., though there are some second-hand sellers at from 16s. 9d. to 17s. per lb. Spot stocks are low. To arrive, 16s. 3d. per lb. c.i.f. is quoted, while oil afloat is 16s. 6d. per lb. c.i.f. Algerian on the spot is at about 16s. per lb.

LAVENDER.—On the spot 9s. 6d. to 10s. 6d. per lb. is quoted for French. The price for new crop oil seems to be settling down at 125 francs per kilo ex distillers, which at the present rate of exchange is around 9s. per lb. at the still.

LEMON is unchanged, and very little interest is shown. Spot is 3s. 7½d. for machine-made, and 4s. 1½d. for hand pressed. C.i.f. is 3s. 6d. and 3s. 11d. respectively.

LEMONGRASS is dull at 2s. 6d. per lb. spot and 2s. 3½d. per lb. c.i.f. to arrive.

ORANGE.—Sweet Sicilian is without alteration at 8s. 11d. per lb. on the spot, and to arrive 9s. 1½d. c.i.f. is quoted.

PATCHOULI is lower at 17s. 9d. per lb. spot, and unchanged c.i.f. at 17s.

PEPPERMINT.—New crop American natural oil is offered cheaper at 9s. per lb. c.i.f. in drums and at 9s. 3d. to 9s. 6d. c.i.f. in tins, and possibly a shade less for quantity. London spot stocks are very small; 9s. 9d. to 10s. 6d. is quoted. Japanese dementhrolised is slightly firmer; on the spot, five brands offer at 4s. 7½d.: Kobayashi-Suzuki at 4s. 9d., and for Kobayashi alone a slight premium is asked—5s. Arrival prices are also firmer, comprising five brands at 4s. 6d. to 4s. 7½d. c.i.f., and Kobayashi-Suzuki at 4s. 7½d. to 4s. 9d. c.i.f. First hands from Japan quote 12d. to 3d. per lb. more than the foregoing. Franco-Mitcham peppermint is offered at 27s. 6d. per lb. ex warehouse for new crop to arrive. Supplies of new crop are limited, as distillers in the South of France are finding it more remunerative to cut the plants and sell the crop as herb than distil. Italio-Mitcham is quoted on the spot at 12s. 6d. per lb. for natural oil, and 14s. for redistilled.

ROSEMARY is quoted at 1s. 9d. per lb. spot for Spanish. To come forward, 1s. 7d. to 1s. 8d. per lb. c.i.f. is quoted.

SASSAFRAS is firm on the spot at from 5s. 3d. to 5s. 6d. per lb., and to arrive at 4s. 6d. per lb. c.i.f.

SPEARMINT is easier at from 15s. to 16s. c.i.f. according to quantity for new crop.

SPIKE.—Spanish spike will be about the same price as last season's, though the fluctuations of the Spanish exchange might make the sterling value lower. New crop to arrive ex producers is quoted at from 1s. 11d. to 2s. per lb. c.i.f. On the spot from 2s. 2d. to 2s. 6d. per lb. is quoted according to quality.

WORMSEED.—Reports from the source indicate that the prospects for the forthcoming winter are for higher prices as the crop is almost a total failure. Spot holders ask 17s. per lb. To arrive c.i.f. 18s. 6d. per lb. is quoted.

A survey, completed on August 8, of the wormseed area in Carroll county made by the Maryland Experiment Station, indicates less than 25 per cent. of a normal crop. This is due to the severe drought which has prevailed since the crop was planted, and it is thought that a continuance of the drought will cause even a greater reduction in the crop.

The following arrivals have taken place from the countries indicated during the period August 20 to August 26,

inclusive: Anise (Ch.) 8 cs., (Fr.) 10 cs.; bergamot (It.) 16 cs.; cassia (Ch.) 10 cs., (Ger.) 10 cs., (H.-K.) 15 cs.; cedarwood (U.S.) 5 dm.; cinnamon (Cey.) 1 dm.; citronella (Cey.) 15 dm., (Java) 8 dm.; eucalyptus (Sp.) 120 cs.; geranium (Neth.) 1 cs.; lemon (It.) 12 cs.; lime (Trin.) 1 cs.; orange (It.) 5 cs.; palmarosa (B. Ind.) 3 pkg.; peppermint (Jap.) 10 cs.; pine (Ger.) 3 cs.; rose (Bulg.) 1 cs., (Roum.) 1 cs., (Fr.) 1 cs.; spike (Sp.) 2 dm. 4 cs.; undescribed (Fr.) 3 cs., (It.) 9 cs

Pharmaceutical Chemicals, etc.

QUOTED prices continue to be maintained, although in many instances they are being discounted for business. The general tone of the market is slow, with citric and tartaric acids and cream of tartar continuing poor items.

ACETANILIDE is unchanged on a sluggish market; B.P. crystals and powder, 1s. 4 $\frac{3}{4}$ d. to 1s. 6d. per lb., as to quantity.

ASPIRIN continues fairly busy so far as inquiry is concerned, and prices are being steadily maintained; home trade, 2s. 9d. to 2s. 11d. per lb., as to quantity. Export to Colonies and British Possessions, 10 cwt., 2s. 8d. up to 2s. 9 $\frac{1}{2}$ d. for small lots; export to other destinations, about 2d. per lb. more. Home and Continental makers' prices are level.

BARBITONE is rather steadier, although business remains quiet; spot, 7s. to 7s. 4d. per lb., as to quantity.

BENZALDEHYDE is unchanged on a poor market; quantities in carboys about 2s. per lb.

BENZOIC ACID (B.P.) continues in fair call with quantities ex works, at about 1s. 11d., and spot parcels about 2s. per lb., ex store.

BROMIDES.—There is nothing new to report; business is very limited, and there is rather more competition than is healthy for holders: dealers quote ammonium, about 1s. 9d.; potassium, B.P., crystals, 1s. 5d.; granular, about 1s. 5d.; sodium, B.P., about 1s. 8d. per lb., for quantities; home makers' prices are competitive.

CALCIUM LACTATE is meeting with a fair demand and prices are about unchanged; quantities, 1s. 1 $\frac{1}{2}$ d. to 1s. 3d. per lb., for small lots.

CHLORAL HYDRATE is well maintained at last week's home makers' prices; quantities, in boxes, 2s. 11 $\frac{1}{2}$ d.; in jars, 5s. 0 $\frac{1}{2}$ d. per lb.; smaller lots, up to 3s. 1 $\frac{1}{2}$ d.; foreign, on spot, about 3s. 3d. per lb.

CITRIC ACID (B.P. crystals).—Spot quotation for foreign is unchanged with the market continuing quiet; quoted at 1s. 6d. to 1s. 6 $\frac{1}{2}$ d. per lb., less 5 per cent. English makers quote 1s. 6 $\frac{1}{2}$ d. per lb., less 2 $\frac{1}{2}$ per cent.

CREAM OF TARTAR (99/100 per cent.) continues in poor demand, with spot values for foreign holding at about 87s. 6d. per cwt.; less 2 $\frac{1}{2}$ per cent. for quantities. English makers quote 99 to 100 per cent. at 90s. per cwt., less 2 $\frac{1}{2}$ per cent. Raw material is decidedly firmer.

CREOSOTE (B.P.) is unchanged on a dull market; spot, 1s. 8d. to 1s. 9d. per lb., as to quantity.

CREOSOTE CARBONATE remains slow of sale, with dealers' prices unchanged; spot, 5s. 9d. to 6s. 3d. per lb., as to quantity.

GUAIACOL CARBONATE is finding small business occasionally at the old rates of 4s. 4d. to 4s. 8d. per lb.

HEXAMINE.—A moderate demand is reported with the business passing at keen prices; quoted from 1s. 10 $\frac{1}{2}$ d. to 1s. 11 $\frac{1}{2}$ d. per lb., as to quantity.

HYDROQUINONE is steady, but the demand has been slower of late; quoted from 3s. 7 $\frac{1}{2}$ d. to 4s. 5d. per lb., as to quantity.

LACTIC ACID (B.P.) is unchanged at the agreed prices of 1s. 11d. to 2s. 1d. per lb., as to quantity and packing.

METHYL SALICYLATE (B.P.) is one of the best markets, and prices are steady at 1s. 3d. to 1s. 5d. per lb., as to quantity.

METHYL SULPHONAL is in small demand, and sales are difficult at the fixed rates of 12s. 7d. to 13s. 10d. per lb., as to quantity.

PARAFORMALDEHYDE has shown a little more life, while competition continues keen; quoted from about 1s. 6d. to 1s. 7 $\frac{1}{2}$ d. per lb., as to quantity, for 100 per cent. powder.

PARALDEHYDE is neglected on spot; quoted from 1s. 1d. to 1s. 3d. per lb., as to quantity and packing.

PHENACETIN.—Quoted prices at the standard rates are unchanged at 3s. 8d. to 3s. 10 $\frac{1}{2}$ d. per lb., as to quantity, for crystals with powder 1 $\frac{1}{2}$ d. per lb. more, but business has been at a discount.

PHENAZONE.—Second-hand parcels at keen prices continue to be offered; controlled prices for crystals are unchanged at 6s. 11d. to 7s. 3 $\frac{1}{2}$ d. per lb., as to quantity, with powder 1 $\frac{1}{2}$ d. per lb. more.

PHENOLPHTHALEIN is steady at the old fixed rates of 5s. 11d. to 6s. 1 $\frac{1}{2}$ d. per lb., as to quantity; business has been moderate.

RESORCIN is unchanged on spot at about 2s. 11d. to 3s. 2d. per lb., as to quantity; business is small.

SALICYLIC ACID (B.P.).—Home makers' prices of 1s. 5d. to 1s. 8d. per lb. continue firm.

SANTONIN.—We are informed that the minimum price of the official agents of the monopoly remains firm at £52 10s. per kilo. Since we mentioned the price of £50 per kilo. in our issue last week, the demand from abroad has exhausted to some extent the available supply, and subsequently there was a hardening tendency.

SULPHONAL is unchanged on a steady but rather inactive market at 10s. 1d. to 11s. 2d. per lb., as to quantity.

TANNIC ACID (B.P. leviss.).—The firmer tone in this market reported last week is well maintained, but prices have not advanced from about 2s. 8d. per lb., for quantities, in kegs.

TARTARIC ACID (B.P. crystals).—Prices continue unchanged with the demand still disappointing; foreign is available on spot from 1s. to 1s. 0 $\frac{1}{2}$ d. per lb., less 5 per cent., for good quantities. English makers quote 1s. 0 $\frac{1}{2}$ d. per lb., less 5 per cent. Raw material is firmer.

THYMOL is still an unsettled market with paper prices in the region of 7s. 6d. to 7s. 9d. per lb., for synthetic fine white.

VANILLIN is offering at about 13s. 6d. in ewt. lots for 100 per cent. ex cloves; ex guaiacol is about 12s. 6d. to 13s. per lb., in ewt. lots; lower prices in both cases for quantities.

Industrial Chemicals, etc.

London, August 27.

THERE is no general improvement in demand for industrial chemicals, supplies moving off in very limited quantities and generally at keen prices.

ACETIO ACID is unchanged with business slow; the market is steady; 80 per cent. technical, £36 5s.; 80 per cent. pure, £37 5s. per ton, in barrels; glacial, pharmaceutical, 99-100 per cent., £58, in glass demijohns; glacial, in barrels, £47 per ton, carriage paid, U.K.

ACETONE is not in any great demand, but controlled prices are steady; B.G.S., £71 10s. to £80 per ton, in drums, as to quantity, carriage paid.

AMMONIA (anhydrous) continues to find a fair volume of small business; 99.95 per cent., in loaned cylinders, 10d to 1s. per lb., carriage paid, and slightly less for big contracts.

AMMONIUM CHLORIDE is unchanged on a slow market: grey galvanising, £21 7s. 6d. per ton, in casks, ex store; less for contracts.

ARSENIC.—There has been a rather better demand, and the market has been influenced by bullish reports about America, where production was curtailed at smelting centres, and purchases were made on the Continent. Cornish agents ask fully £15 per ton f.o.r. mines for 99 per cent., and call the market firm. There is no Japanese offering.

COPPER SULPHATE.—There has been a fair demand for export lately, but business is not very active. Associated British Makers quote about £22 10s. per ton for casks f.o.b., less 5 per cent. discount. The renewed weakness in the metal is apparently making for caution as regards the filling of forward requirements.

FORMALDEHYDE has met with a slightly better inquiry, but prices are keen in the region of £31 per ton and less for quantities of 40 per cent. by volume.

ISOPROPYL ALCOHOL continues in fair call with prices for good quality steady at about 10s. to 11s. per gallon, carriage paid; lower grades at cheaper prices.

LITHOPONE is steady with the market quiet: 30 per cent. Continental red seal, about £19 10s. per ton, in casks, ex store; less for quantities to arrive.

OXALIC ACID has been quiet but steady at about £31 10s. per ton, for quantities and spot lots at 32s. per cwt., in casks, ex store.

POTASH CAUSTIC is in no great demand, but controlled prices are well maintained: 88-92 per cent. solid, £29 10s. to £34 10s. per ton, in drums, ex store; 30s. per ton less c.i.f. in all cases.

POTASSIUM CARBONATE has been inquired for now and again with the market steady: 90-92 per cent., £23 10s.; 96-98 per cent., £25 10s. per ton, in casks, ex store; less for contracts.

POTASSIUM CHLORATE has been practically idle so far, as big business is concerned: quantities, about £26 5s. per ton and spot parcels, 3½d. to 3½d. per lb., ex store.

SAL AMMONIAC is steady but in poor demand: dog-tooth crystals, £32; medium, £28; fine white crystals, £17 5s. per ton, in casks, ex store; slightly less for contracts.

SALTCAKE has been in better demand with the home trade prices at 55s. to 57s. 6d. per ton, in bulk, delivered.

SODIUM ACETATE remains dull, and is offered at keen prices in the region of £19 7s. 6d. per ton, in casks, ex store.

SODIUM CHLORATE is flat and unsteady: quantities at about £24 5s. per ton; spot parcels, about 3d. to 3½d. per lb., ex store.

SODIUM HYPOSULPHITE continues in steady demand with values about unchanged; dealers' quote pea crystals at about £15 per ton, in 1-cwt. kegs; commercial quality, £9 10s. per ton, in casks, ex store; makers' price for pure crystals to home consumers on contract, £15 per ton, carriage paid to buyer's works.

SODIUM PRUSSIATE shows no improvement in demand: quantities, 4½d. to 5d.; smaller lots, about 5½d. per lb. ex store.

SULPHUR.—The fact that this commodity is well under control explains the stereotyped state of the market. There is a steady demand for American crude 99 per cent. standing at £5 12s. 6d. to £5 17s. 6d., while Sicilian flowers are £11 5s.; refined ground £10, and roll £8 15s. per ton, all c.i.f. to arrive.

Fixed Oils, etc.

THE tone generally continues dull with two or three markets showing further reductions. Palm oils are slow of sale; linseed oil shows a loss on the week, and is unsteady; turpentine continues steady with a further advance in quoted price. ACID OILS.—Price are about unchanged, with the market quiet: coconut and/or palm kernel, 28s.; groundnut, 26s.; soya, 19s. 6d. spot. CASTOR continues dull with prices unchanged: pharmaceutical, 44s.; first pressings, 39s.; second pressings, 37s. per cwt. in barrels, in not less than one-ton lots. COCONUT.—Prices show a slight reduction with the market dull: deodorised, spot, 39s.; Ceylon, 27s. c.i.f. COITON.—Quiet market is reported, with prices easier generally: deodorised, 36s. 6d.; common edible, 35s.; soapmaking, 32s. 6d.; crude, 29s. 6d. spot. GROUNDNUT.—Very little change in prices is reported, with the market dull: deodorised, spot, 39s.; crude Oriental, 38s. c.i.f. PALM KERNEL continues quiet with deodorised slightly easier: deodorised, 37s. 6d.; crude, 30s. 6d. spot. PALM.—The market continues to be slow with a further reduction for all grades reported. Lagos, 22s. 6d.: softs, 22s.; mediums, 22s.; hards, 23s. 3d.; bleached, 25s. spot. RAPE is again easier and dull: refined, 38s.; crude, 36s. 6d. spot. SOYA is dull with prices again easier: deodorised, 35s. 6d.; crude, 28s. 3d. spot. LINSEED (raw, naked).—Prices show a further weakening on the week with the market still unsteady: On spot, 32s.; September, 30s. 9d.; September-December, 30s. 4½d.; January-April, 28s. 3d. Boiled oil, on spot, 36s. 3d.

TURPENTINE.—There was a further sharp movement reaction in sympathy with America, but the price at Savannah, after touching 40c., reacted to 38c., which made for an easier undertone here with prices at around 36s. 3d. for spot, 37s. September-December, and 38s. 9d. January-April. Last week's deliveries here were 1,920 barrels, making a total since January 1 of 66,054 barrels, this comparing with 64,102 barrels for the same period last year. Stocks rose to 21,478 barrels, which, with 467 barrels in the course of landing, made the London visible supply 21,945 barrels against 22,445 barrels and 35,888 barrels respectively for the same dates in the previous two years. RESIN.—Prices here responded further to the upward movement in America after the long and persistent decline. This, however, had an ensuing effect on the demand, especially in view of the heavy American stocks, such as were not seen for eight years. C.i.f. terms for American were as follows:—B., 11s. 10d.; D., 12s. 0½d.; E/K., 12s. 3d.; M/N., 12s. 7d. to 12s. 9½d.; W/G., 14s. 1d., and W/W 15s. 11½d. per cwt. French is dearer in sympathy with American, with the F/G grade called 11s. 10½d., W/G 12s. 6d., and W/W 12s. 10½d., all c.i.f. to arrive. WOOD.—Hankow in barrels on spot continues dull, but is slightly easier at about 49s. per cwt. LUBRICATING OILS continue depressed and unsteady, with

prices easy as quoted: on spot, pales, £9 12s. 6d. to £21; reds, £11 to £21; dark cylinders, £12 to £30; filtered cylinders, £21 to £31 10s. per ton, less 2½ per cent.

St. Vincent Arrowroot

AN arrowroot pool (says the "Times Trade Supplement") is to be organised in St. Vincent. In order to facilitate the purchase of machinery and the erection of a factory for the scientific handling of the product, the Colonial Government has obtained a grant of £3,000 and a loan of £30,000 from the Colonial Development Fund; the loan is for 20 years, free of interest for five years.

Sudan Gum Acacia

BOXALL & Co., in their report covering the market July 1 to July 31, state that the arrivals in Kordofan stations (El Obeid, Nahud, and El Odaiya only, all other stations having completely given out) amounted during July to 878 tons, showing a great decline as against the preceding month. July arrivals compare with other years as follows:—

	1923	1924	1925	1926	1927	1928	1929	1930
Tons:	1,100	888	1,151	1,472	712	495	171	878

Total new crop arrivals to date compare with previous seasons as follows:—

	1923	1924	1925	1926	1927	1928	1929	1930
Tons:	13,672	13,566	10,904	13,930	13,005	15,744	10,855	12,670

Prices at El Obeid experienced daily fluctuations during the month, but the general tendency has been downward. The price paid on July 1 was 6d. down as against the closing price of June 30. Prices continued to fall up to July 16, the fall amounting to 9s. 9d. From July 17 to July 27 prices took an upward move, the rise amounting to 6s., but during the last four days of the month they suddenly fell again 5s. 3d. The net fall during the month was, therefore, 9s. 6d. per cwt.

Demand has been generally very slack. During the last week of the month when prices fell again demand somewhat revived both from the Continent and the U.S.A.

Market Position.—The market during the whole month has been very uncertain. During the first fourteen days of the month arrivals were good, but for the following thirteen days they were very small. It seemed that arrivals were falling off, but on the contrary during the last four days of the month they increased considerably. It is noticeable that while arrivals were good, prices were gradually falling, whereas they were rising when arrivals were very small.

Talha.—Prices declined during the month 1s. 6d. per cwt., overseas demand being insignificant.

The exports from January to June, 1930, compared with the corresponding period of 1929, were as follows:—

Destination	1929			1930		
	Jan.-May	June	Total	Jan.-May	June	Total
Great Britain ..	2,229	163	2,392	2,413	304	2,717
U.S.A. ..	2,778	553	3,331	2,155	278	2,433
France ..	1,784	289	2,073	1,796	393	2,189
Germany ..	1,978	461	2,439	1,719	298	2,017
Italy ..	690	88	778	686	172	858
Belgium ..	754	35	789	776	59	835
Japan ..	373	—	573	414	13	427
Spain ..	187	—	187	159	29	188
Holland ..	281	36	317	280	55	335
Denmark ..	14	1	15	9	—	9
Norway & Sweden	77	—	77	166	32	198
Egypt ..	49	—	49	50	15	65
Australia and N.Z.	272	33	305	317	48	365
China ..	144	—	144	189	—	189
Canada ..	15	—	15	37	—	37
Argentina ..	46	—	46	13	10	23
Brazil ..	12	13	25	17	12	29
Uruguay ..	5	2	7	—	—	—
Finland ..	27	—	27	19	—	19
British India ..	84	—	84	13	—	13
Other countries in America ..	21	—	21	30	1	31
Other countries ..	33	—	33	30	8	38
Total tons	11,853	1,674	13,527	11,288	1,727	13,015

The export figures are made up of the following qualities:—

	Hashab	Bleached	Talha	Total
January-June, 1929 ..	Tons 11,258	45	2,224	13,527
January-June, 1930 ..	Tons 11,208	20	1,787	13,015
Difference in 1930 ..	Tons -50	-25	-437	-512



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Six Points

SIR.—It is because so many pharmacists engaged in retail business seem content to view their lot through "smoked lenses," as "Heretic" puts it (*C. & D.*, August 9, p. 205), that I have endeavoured to point out to them a better way. The prospect of pending legislation that is planned on unhelpful lines seemed to emphasise the desirability of my so doing. I agree with "Heretic" that not many pharmacists could ever find remunerative scope for what may be termed special clinical subjects, though I think his estimate of "not one in a thousand" is unduly high. But, to be quite candid, one of the main objects in preparing my Conference address was to press this very point. My suggestions were for such modification of our curriculum as would tend in the direction of helping the well-educated man behind the counter to make more money whilst actually engaged in business as a chemist and druggist. For the rest, it is hopeless to think of our securing by legislative means any monopoly in the supply of "articles which can now be obtained equally well from doctors, drug stores, grocers and others." But much in the desired direction can, I feel sure, be accomplished by individual effort and co-operation. Looking through my "rose-tinted spectacles," I seem to see the possibility of capturing much of the business that goes astray, provided that chemists and druggists (1) consider the problem from the point of view of public requirements; (2) have complete confidence in themselves and the goods they sell; (3) maintain the highest possible standard of quality; and (4) are content with a reasonable rate of profit. Let them also insist (5) that public authorities shall test periodically the stocks of all unqualified dealers in chemists' goods, just as they test those of chemists. There is reason to believe that this is not at present done regularly, if at all, and interesting revelations in the courts might be expected to influence the public estimate of the value of drugs, etc., sold by unqualified dealers. Finally, there should be agreement among chemists and druggists (6) to cease to deal with wholesalers who supply other retailers with chemists' goods. This should lead in time to co-operation between legitimate retailers and all wholesalers of repute, the more especially as wholesalers no less than retailers are now menaced by the increasing pressure of the multiple-shop combines. Without further elaborating my six points for the moment, I commend them to "Heretic" and others for consideration as a basis for a self-help movement in pharmacy.

Yours faithfully,
JOHN HUMPHREY.

Harrow.

Specie Jars

SIR.—I have only just seen the letter in your issue of August 16 (p. 250) regarding specie jars, and although I have never come across any inscribed "Urtica" or "Calendula," I should imagine that in the eighteenth century these may have not uncommonly been used by apothecaries. Urtica is, of course, the common nettle, which is supposed to have certain diuretic effects; while calendula is marigold, which was formerly thought to have various therapeutic effects, and is still used occasionally as a lotion for bruises, though whether it is very efficacious for that purpose is, I understand, somewhat doubtful. The jar bearing the Tasmanian coat of arms is certainly very curious, but was no doubt made to the order of some patriotic Tasmanian chemist in precisely the same way as in the seventeenth and early eighteenth century apothecaries would have sets of jars manufactured for their

shops bearing their initials or even sometimes the arms of the Apothecaries' Company.

Yours faithfully,

GEOFFREY E. HOWARD.

Ilford.

Masticogna Adulteration of Liquorice

SIR.—I have before me a circular received from a concern in Catania, Sicily, offering a quantity of block liquorice juice which they admit is "pas trop pure," being adulterated with the extract of the notorious poisonous root masticogna (*Atractylis gummifera*), the extract of which is in appearance exactly like liquorice juice. The circular adds that the liquorice is only to be used for industrial purposes. Attention was drawn to this abominable practice on the part of Sicilian (Italian) manufacturers by an article which appeared in the "Analyst," a few years ago, and the *C. & D.* (March 28, 1925, p. 459), and I had an impression that the Italian Government in the interests of the genuine Italian liquorice manufacturers of Calabria, Italy, had forbidden this pernicious adulteration of block juice. However, in August 1930 it is openly admitted, and although the remark for "industrial use" is mentioned in the circular, I should like to know what protection the ordinary English buyer has against unscrupulous foreign dealers who may purchase this rubbish and who are too apt to use the word "pure" in selling liquorice on the English market. It should surely be to the interest of buyers of Italian juice to insist upon only purchasing the product of Calabria, Italy. In this instance, there is no question of the purity of the goods. The price may be a few shillings per cwt. more than the Sicilian product, but at least the buyer will know he is buying genuine liquorice extract.—Yours truly,

ABUSUS (20/8).

Shop Hours

SIR.—I have read that the Retail Pharmacists' Union has been requested to give evidence before the Select Committee. The Retail Pharmacists' Union, I understand, really represents the employer pharmacists, and their point of view will naturally differ from that of the employees. Who, then, is to support the employee pharmacists? I assume, of course, that most managers and assistant pharmacists agree that their hours are excessive, especially so in view of the fact that the average rate of pay is about 1s. 6d. per hour.

Yours faithfully,

OVERWORKED M.P.S. (23/8).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Carbon Dioxide Foam Baths

Soapless Foam, Ltd., 17-18 Dover Street, London, W.1, inform us, with reference to the article "Carbon Dioxide Foam Baths" in our issue of August 23, that the foam apparatus referred to (the Sandor) is sold to doctors, sanatoria, nursing homes, etc., to be prescribed and used solely under medical supervision, and cannot be used in the home by private individuals. A special extract containing a non-poisonous saponin is also sold and the apparatus is sold on the condition that only this extract be used.

Photographs of the Pharmaceutical Society's Council

Those of us who keep some of our back numbers of THE CHEMIST AND DRUGGIST (and particularly the Special Issues) were mildly surprised on being informed the other day that the Council of the Pharmaceutical Society had just been photographed in session for the first time. Before me, as I write, is a copy of your Special Issue of January 27, 1894, containing a full-page photograph of the Council of that day, with a key and a brief explanatory article showing that the photograph was taken after the ordinary meeting in December 1893.—A. E. (18/8).

Legal Queries

C. K. (8/7).—Solid preparations of carbolic acid do not come within the Poisons Schedules, and consequently may be sold by persons other than chemists and druggists.

D. T. S. (4/6).—The use of the title “Scurf and Dandruff Lotion” would not render the article liable to medicine stamp duty, provided there are no grounds for liability in any other printed matter used in connection with the preparation.

Cesa (19/8) asks: “Are premises consisting of a shop with living rooms above it regarded as ‘business premises’ and therefore outside the scope of the Rent Restriction Acts?” [The tenant of a combined house and shop is, as a rule, entitled to the protection of the Acts; but it depends upon the circumstances.]

H. R. (2/7), while under notice to relinquish a post as manager, asked for and was allowed a day off to interview a prospective employer. Nothing was said on the subject of his salary for that day. He was paid his salary up to the end of his engagement, but his late employer has since claimed a refund of one day’s salary in respect of the day that he was away from work. Can this claim be enforced? [In our opinion, the employer cannot compel “H. R.” to repay the day’s salary seeing that “H. R.” was away from work with his (the employer’s) consent.]

Pharmacy (21/7) had a business until recently in a country town. He sold the business and under the agreement undertook not to start in business again within five miles of the premises for a period of five years. How will he stand if he opens a shop within the prohibited radius? [Agreements of this kind are valid if they are not unreasonably stringent; otherwise they are void. It is impossible to say what view the Court would take; but in our opinion a restriction of the kind mentioned is not unreasonable in the ordinary way. If the Court held that the agreement is valid, it might grant an injunction against “Pharmacy” and also order him to pay damages to the purchaser of the business should he start business within the radius stated.]

D. M. D. (16/8) writes:—“A manager receives a salary of £4 a week and is allowed the use of three living rooms above the shop, free of rent, rates and taxes. What is his position as regards National Insurance and income tax?” [A cash value will have to be placed upon the benefit that the manager derives from the provision of free living accommodation, and this amount will be regarded as part of his remuneration for the purposes of both National Insurance and income tax. Unless the value placed upon the accommodation brings the manager’s salary to above £250 a year he will have to be insured under the Health and Unemployment Insurance schemes. As it appears to be a border-line case, the best plan will be to write to the Secretary, Ministry of Health, Whitehall, London, S.W.1, asking that the amount may be assessed officially.]

A. J. R. H. (21/7) asks if it is permissible to manufacture and sell a snuff with a tobacco base, but containing up to 20 per cent. of other ingredients, including oils, provided it is sold packed and under a proprietary name. [The answer depends on what the “other ingredients” are. Thus, no materials other than water or the carbonates, chlorides or sulphates of potassium or sodium, or carbonate of ammonium or essential oil for flavouring may be used in the manufacture of snuff. A penalty is incurred if any manufacturer or dealer has in his possession for sale snuff containing more than 13 per cent. of lime or magnesia, or both, or containing more than 26 per cent. of the carbonates, chlorides and sulphates of potassium or sodium and the carbonate of ammonium. Magnesia or magnesia salts may not be added to snuff, but it is permissible to add tonquin beans not exceeding 3 per cent. or orris root not exceeding 2 per cent. for flavouring snuff. The fact that snuff is sold packed and under a proprietary name is immaterial.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Motors (31/7).—REMOVING ENAMEL.—Apply freely a mixture of equal parts of methylated spirit and benzol. After a short time the enamel will be sufficiently soft to be removed with a painter’s scraper.

W. H. G. (14/85).—SOIL FUMIGANT.—This is a coarse ferruginous earth containing much calcium and silica as well as iron, charged with a crude soluble cresol, which has been emulsified with a little soap.

A. M. (15/85).—OINTMENT FOR BURNS.—Reputed to be of value in treating burns and scalds, analysis showed this ointment, which has been largely sold in Yorkshire, to contain a large proportion of calomel, say 10 per cent., the base being apparently merely tallow. There is also present a basic substance which gives a precipitate with Mayer’s solution; it does not simulate alkaloids; probably it is acetanilide or a similar chemical.

Agricola (9/84).—(1) PIG POWDER.—This contains sulphur (20 or 30 per cent.), ferric oxide (15 or 10 per cent.), and vegetable matter, which by microscopic examination, was found to consist mainly of leaf and stalk.—(2) HORSE POWDER.—The main components of this powder were found to be sulphur, an insoluble antimony compound (possibly the oxide, but not black antimony), potassium nitrate, and a vegetable powder which microscopic examination shows to be largely an unbelliforous fruit, in all probability anise.

H. McR. (10/84).—PLASTER.—This preparation, which is stated to be used for hacks on the hands, is not a true plaster, since it contains neither lead nor other fixed ingredients. It appears to be little, if anything, more than simple common resin. Since it is not quite so brittle as normal resin, it may contain a little wax, or a little Venice turpentine mixed in, or be merely a soft variety of resin.

M. S. (30/7).—OBERMAYER’S REAGENT.—Add to the urine 20 per cent. solution of lead acetate, filter. Add to the filtrate equal volume of fuming hydrochloric acid containing 1-2 parts of ferric chloride in 500 parts; shake for 1-2 minutes. Indigo blue is formed and becomes visible on shaking the solution with chloroform, in which it dissolves with a blue colour.

Retrospect of Fifty Years Ago

Reprinted from
“The Chemist and Druggist,” August 15, 1880

Cinchona Plantations in Java

A small plantation of fourteen acres of *Cinchona Ledgeriana*, set 5 feet apart, planted in 1862, was first cropped in 1872. In the seven succeeding years it yielded 26,825½ kilos of bark, which sold at 5 fr. 30 c. per ½ kilo, or 141,766 fr., or 1,448 fr. per acre during the whole life of the plantation. . . . Mr. Moens has kept a register of the history of a number of trees. The most remarkable tree in the East is No. 67, a *Calisaya Ledgeriana*. It is eighteen years old, and its bark has yielded 13 per cent. of pure quinine. . . . No. 78 comes next in order of merit, its bark yielding 10.5 per cent. of quinine, and no other alkaloids. It is of the same species and age, and grows in the same garden, but the bark is very rough, the leaves are broad and green, and the flower is pure white. A succirubra, fourteen years old, is 63 feet high and 3½ feet in girth. . . .

Owing to pressure on space, this week’s instalment of the C. & D. Commercial Compendium is held over.



Dental Plate Fixing Powder

Recommended by the Dental Profession.

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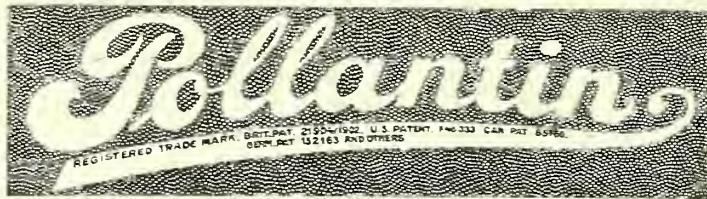
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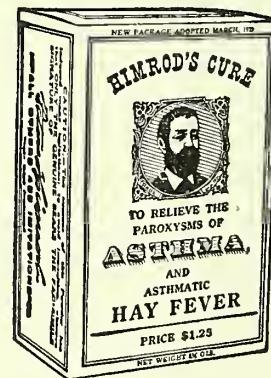
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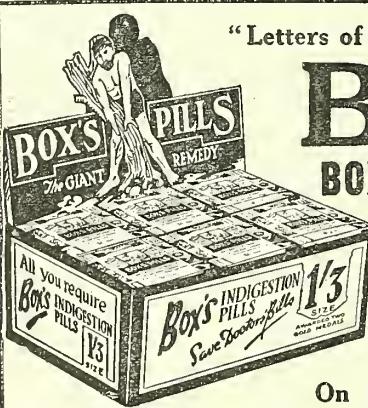
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4½ D. **HOLIDAY'S 4½ D.**
per tin. per tin.
GINGER BEER CRYSTALS

ONE TIN MAKES TWO GALLONS OF
Sparkling Home-Brewed Ginger Beer

NO BOILING OR STRAINING REQUIRED.

3/- per gross, nett. Carriage Paid. Packages Free.
3 doz. sample lot, post paid, 10/- Advertising & Show Matter.

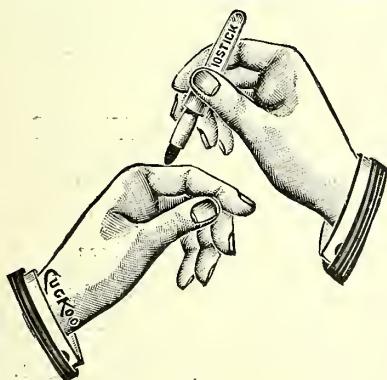
SOLE MANUFACTURERS :
HOLIDAY & CO. LTD., City Mills, Durham.

A SOLID IODINE PENCIL

is our latest production
Pencil measures $1 \times \frac{3}{8}$ inch
Plug Boxwood Holder is 4 inches long
Sample posted anywhere for 3d. in stamps

To Chemists at 3/6 doz. carriage paid
Special Price to Wholesalers

M. J. FECHER, Ltd., 10 Dod St., London, E.14





**HOME
MADE
BEER**
from
**MASON'S
EXTRACT OF HERBS**
THE NATIONAL BEVERAGE :
SELLS FREELY EVERYWHERE
UNIQUE DISPLAY MATERIAL
EASILY ARRANGED
Folder Showcard. Half-pint Mug.
Imitation Bottle of Beer, &c.
WINDOW SHOW ALLOWANCE
WITH OPENING ORDER
Apply to NEWBALL & MASON, LTD.,
Nottingham, for particulars.
GOOD IT'S MASON'S

Turn 12/6 into 24/-

MONSOON BALM

*The Great
Eastern
Remedy
for*

**Insect Bites
Bruises
Headaches
Neuritis
Rheumatism
and
Catarrh**



Write for full particulars and free samples for personal use.

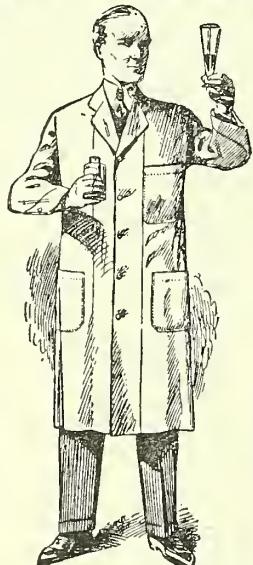
MONSOON BALM (Britain), Ltd.
329 High Holborn, LONDON, W.C.1.

'Phone : HOLBORN 4821

THIS WEEK by accepting
this offer

M.V. & Co., Ltd. M. 1056

OVERALLS



SEND FOR NEW ILLUSTRATED LIST

Jackets and Coats of very superior quality, made from the most reliable materials, smartly cut and thoroughly well finished in every detail.

WHITE DRILL JACKETS
6/11, 8/11, 10/6

KHAKI DRILL COATS
6/11, 8/6, 10/6, 12/6, 14/6

WHITE DRILL COATS
7/6, 9/6, 12/6, 13/6, 15/6

BLACK DRILL COATS 15/6

GREY COTTON COATS 7/6

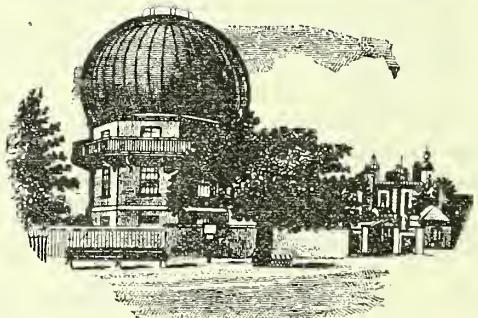
STOCK SIZES: 34 to 44 chest. Special pockets and little adjustments can be made without extra charge. POSTAGE on single coat 9d., but 20/- orders upwards carriage paid.

**SPECIAL PRICES FOR
LARGE QUANTITIES**

GARDINER

& CO. (*The Scotch House*), LTD.
1, 3, 5 Commercial Road, LONDON, E.1
Telephone : Bishopsgate 6751.

Established 1839.



**GREENWICH OBSERVATORY & CLOCK
TRADE MARK**

SEIDLITZ POWDERS

LEMON or ORANGE FLAVOURED and SWEETENED

KIDLITZ

PLAIN SEIDLITZ POWDERS

B. P., E. S. & D. S.

In Blue Cellophane Envelopes,
with customer's name and address.

Prices and Bonus Terms from

MILNER & COKE, LTD.

Incorporating

The GREENWICH LEMONADE CO.
11 JOHN PENN STREET, LONDON, S.E.13

As manufacturers it is necessarily our aim to offer products of Utility, Efficiency, and Smart Presentation which will move quickly and not merely crowd your shelves. A typical example is :—

RED DIAMOND BISMUTH INDIGESTION TABLETS

Mint Flavoured and Compressed Heart Shaped, they form a valuable corrective for FLATULENCE, ACIDITY, HEARTBURN, and all mild digestive derangements.

PRICES:

7-lbs.	2/-lb.
14 „	1/11 „
28 „	1/10 „
56 „	1/9 „
112 „	1/8 „
2-oz. Cartons filled, per	3/6 Dozen.

Samples on Application.



THE SHOW-MATERIAL, designed in Red and Green of vivid richness and warmth on a black background, with artistic lettering, has an arresting force which focuses attention and creates interest.

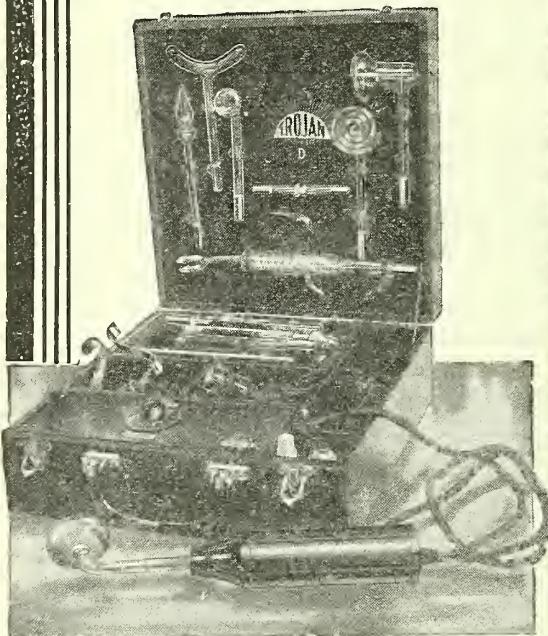
A COMPLETE DISPLAY IS GIVEN WITH 14 lbs.
and a sufficient supply of 2-oz. cartons for dispensing with all parcels.

Pharmacists with several branches are invited to write for special inclusive quotations for the requisite number of window displays required.

£2 Parcels carriage paid in Great Britain, or orders may be booked against motor deliveries.

BURGOYNE, BURBIDGES & CO., LTD.
Manufacturing Chemists, LONDON, E.6
ESTABLISHED 1741

A SPLENDID OPPORTUNITY!



The fact that electricity is being appreciated as an aid to Health and Beauty more and more every day offers a great opportunity for increasing your sales.

The NEW TROJAN HIGH FREQUENCY ELECTRICAL OUTFITS are absolutely dependable and can be easily operated by an entirely inexperienced person.

Every progressive chemist should have particulars of this profitable selling line—write us for full details and ask us to explain our novel selling scheme.

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(Established 1795.)

Head Office and Works - - - WOLVERHAMPTON
Telephone: Wolverhampton 1001.
Telegrams: "Shaw, Wolverhampton."

London - - - 29-30 Shoe Lane, E.C.4
Telephone: Central 1814.

MANCHESTER - - - 5 Orme Buildings, Parsonage
Telephone: Blackfriars 1365.

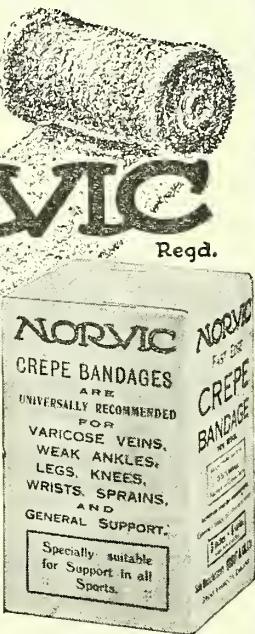
*There's profit
in a display of*

NORVIC

Regd.

*why
not
take
it?*

Dependability and quality have made "NORVIC" Blue Carton the recognised brand wherever crepe bandages are needed. A small display will pay you handsomely.



P.A.T.A. PRICES

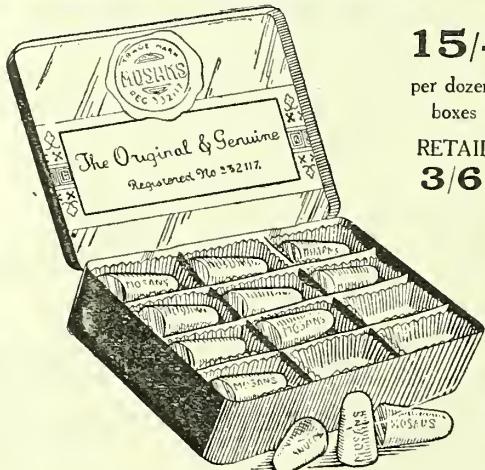
	2"	2½"	3"	3½"	4"
Cost	12/-	15 3	18 3	21 3	24 3
Sell	1/6	1/11	2/3	2/8	3/-

Stocked by all leading wholesalers

Sole Manufacturers:—Grout & Co., Ltd., 35 Wood St., E.C.2

"MOSANS"
Non-Greasy, Odourless

QUININE PESSARIES



15/-

per dozen
boxes

RETAIL
3/6

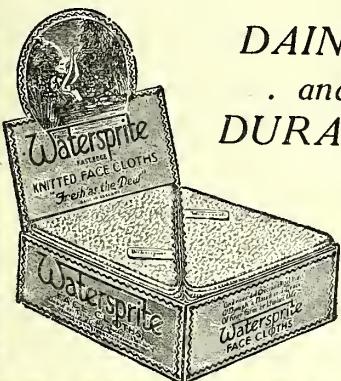
ORDER THROUGH USUAL WHOLESALER.

Avoid Imitations and see the No. 332117 on each box.

THESE CHARMING CLOTHS, BEING
SPECIALY KNITTED, HAVE JUST
SUFFICIENT ELASTICITY TO RENDER
THEM DELIGHTFULLY SOFT IN USE,
AND APPEAL INSTANTLY TO
DISCRIMINATING
BUYERS.

**DELIGHTFULLY ATTRACTIVE
DISPLAY CARTONS**
PRINTED IN SEVEN COLOURS
CONTAINING TWO DOZEN.

**DAINTY
and
DURABLE.**



Sole Manufacturers :

SOLPORT
BROTHERS LIMITED

184-192 GOSWELL ROAD
LONDON - - E.C.1

FROM ALL WHOLESALERS.

IF ANY DIFFICULTY IN OBTAINING SUPPLIES, WRITE US DIRECT.

We Are Still Executing Orders
for the
LOCARNO
MEDICATED
TOILET
ROLL

WHY!!!

BECAUSE it is ONLY OBTAINABLE
FROM THE CHEMIST

CONTAINS
650 SHEETS
PURE WHITE
SULPHITE
PAPER.
12 oz. ROLLS.

COSTS
3^d.
SELLS at
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FREE
DELIVERY.
PACKED IN
CARTONS.
SAMPLE
ROLL FREE.

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J. RUTHERFORD & Co.
LIMITED
VICTORIA PAPER MILLS
VICTORIA ROAD
HOLLOWAY, LONDON, N.7

Contractors to H.M. Government.

Best sellers

The
public is asking
for **ZEAL**
CLINICAL
THERMOMETERS
because they are:-
GUARANTEED TO
STAY ACCURATE
CONSISTENTLY
ADVERTISED



DRY BOTTLE CAPS

Superfine
Self-sealing
Distinctive

All sizes and
colours, Clear
& Opaque

"ADAPTOCAPS."



An unrivalled
British Product

Special low rates
for large contracts

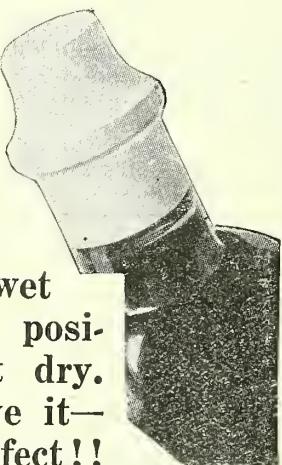
The London Capsule Co., Empire Works, Mitcham Road, CROYDON

'Phone : Thornton Heath 3014.

Australasian Agent—FRANK HAMBRIDGE, 22 Bridge Street, Sydney.

all you
have to
do—

is to place a wet
"Viskap" in position.
Let it dry.
There you have it—
Sealed! Perfect!!



VIISKAP
HERMETIC SELF-FIXING
BOTTLE CAPS

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**CHEMISTS' FITTINGS
OF EVERY DESCRIPTION.
NEW AND SECONDHAND.**

F. MAUND & E. BERG (SHOWCASES) LTD.,
175/9 and 336 OLD STREET, LONDON, E.C.1



D. MATTHEWS & SON,
Shop Fitters and Showcases
Manufacturers,
14/16 Manchester St.,
LIVERPOOL.

THE KWIK-SALE SHOWCASE

Suitable for all Businesses.
Plate glass sloping front. Frameless Mirror
sliding doors at back. Polished edge plate
glass shelf inside. Size 3 feet long, 14 in.
back to front at bottom. 9 in. back to front
at top. 12 in. high.....£5-10-0

*Medical, Surgical and
Scientific.*

Wholesale and Export only.
Inquiries invited.

IF YOU BUY
ABROAD—
WE BOTH
LOSE MONEY

GLASSWARE

NIPPLE
SHIELDS,
IRRIGATORS,

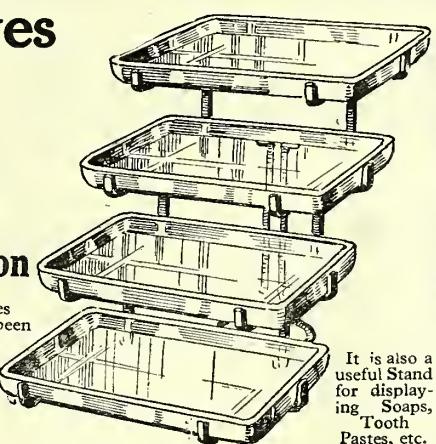
Eye and Nasal Douches,
Syringes and Surgical
Glass Instruments.

POULTEN, SELFE & Co.

Harley Street, Bow Road, London, E.3. 'Phone: East 3334

Solves the Tooth Brush Question

Tooth Brushes have always been a difficult line to serve, but with the aid of this Stand customers can serve themselves.



It is also a useful Stand for displaying Soaps, Tooth Pastes, etc.

No. CDSF 2851—Very attractive COUNTER DISPLAY STAND. Constructed of mild steel finished Silver colour and complete with four clear glass trays size $11\frac{1}{2} \times 7 \times 1$ in. Each tray is slightly sloped rendering the goods easy to see and select from. The overall height is $15\frac{1}{2}$ in., width 12 in., back to front 15 in.

22/6 each complete.

*Send for a copy of our new full 48-page List
No. CD 1180, free on request.*

DUDLEY & COMPANY LIMITED
451 Holloway Road, London, N.7

City Showrooms : 65-66, Fore Street, E.C.



PILL TUBES and VIALS

in all sizes
to customers'
requirements

VAN DER HOEKS

321/325 BANK CHAMBERS

329 HIGH HOLBORN

W.C.1

Phone - - HOLBORN 6125

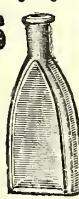


GLASS BOTTLES and JARS

OF EVERY DESCRIPTION

VIALS, plain and graduated, in cartons.
MEDICAL FLATS, plain and graduated.
PANEL FLATS, COUGH PANELS, TOBINS.
POISONS, Blue, BLAUDS PILLS, Amber,
ESSENCES, round and oval. MINIATURES.

BABY FEEDERS, lettered "HYGIENIC."
OPAL POTS, square, round and octagonal,
with Aluminium Screw Caps.



Pyramid
Flat.

Write or phone Mansion House 4901 (8 Lines)

L. LEPESONNE & CO.

(Estab. 1888)

99 CANNON STREET - LONDON, E.C.4
(Strictly Wholesale. Home and Export Trade.)

GOOD BOTTLES

make all the difference

Cheap Bottles at the best are a poor investment. Usually indifferently made, of poor metal—unevenly shaped—badly coloured, and of incorrect capacities—they cannot add prestige to your products.

It pays to use the best British Bottles. Our four Factories are equipped with the very latest devices for securing uniformity in manufacture.

Super Strong Bottles well made in every respect—they are good-class bottles with a perfect finish—containers you can be proud of and which make all the difference to your finished product.

We make all kinds of glass containers—medicals, cheltenhams, panels, flats, rounds, emulsion, ink, feeding bottles, sauce, pickle bottles, jam jars, etc.

Make us your standard bottle suppliers
—our prices are distinctly competitive.

Wholesale and Export only

LAX & SHAW LIMITED

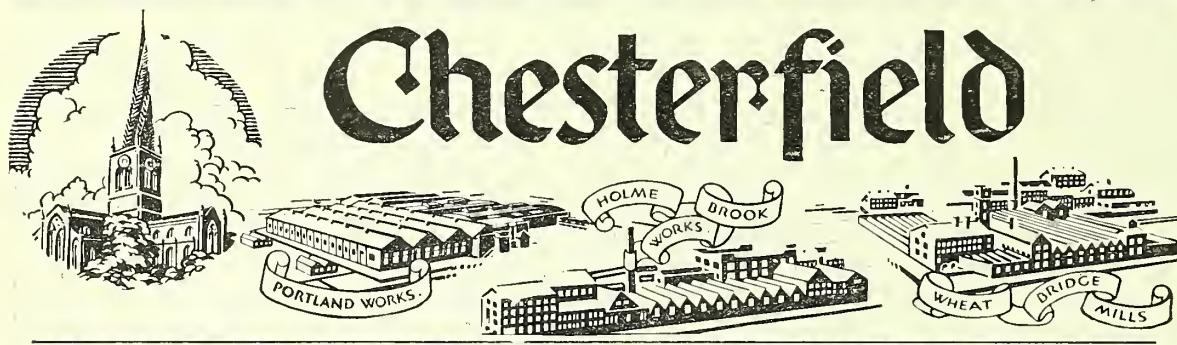
Registered Office :

**ALBERT GLASS WORKS
HUNSLET, LEEDS**

Telephone: LEEDS 21568 (2 lines)

Wires: FEEDERS, PHONE, LEEDS

Factories: ALBERT, BELINDA,
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The Town of the Crooked Steeple and the Cardboard Box Industry

Goods well packed are half sold, and easier selling means more sales.

We have expert box designers who specialise in designing boxes which are salesmen as well as packages. If therefore you have any packing troubles send them to CHESTERFIELD where our 90 years experience is at your disposal.

ROBINSON & SONS, LTD., WHEATBRIDGE MILLS, CHESTERFIELD.
MANUFACTURERS OF ROUND, OVAL, SQUARE AND FOLDING CARDBOARD BOXES.

900 workers are employed in the above factories.

TWO INDISPENSABLE AND WELL-ADVERTISED POULTRY SPECIFICS

RADIO-ACTIVATED VISOL ensures a bigger and longer maintained egg-output. Positively prevents and cures Colds, Bird Pox, ROUP, etc.
A PROVED REMEDY

VISOLEUM—The Cod Liver Oil fortified with vitamin 'D' to double strength, and guaranteed purity. Made specially and only for Visol laboratories, under licence of the master patent STEENBOCK process with irradiated Ergosterol.

QUICK SALES



GOOD PROFITS

VISOL LABORATORIES, GREAT BARR, Nr. BIRMINGHAM

WORMS IN PUPPIES

Every chemist has dog breeder customers who would be glad to know of a reliable Worm Remedy for young puppies from 3 weeks upwards. McGuffie's Wormseed Mixture meets the case admirably. Safe, effectual, Profitable. Retail 1/- and 2/6. Order from your usual wholesaler or direct from:

J. McGUFFIE & Co., 10 Castle Street, LIVERPOOL

COMPLETE PHARMACY INTERIORS from SKETCHES & QUOTATIONS ON REQUEST £70

We specialise in short-notice requirements

R. TOMLINSON & SONS LTD.
3 LIONEL ST. (New Address)
BIRMINGHAM



BATTLES SHEEP DIPS

Specially packed for the Chemists' Trade.

POWDER, PASTE & LIQUIDS (Poisonous and Non-Poisonous), **WEED KILLERS, WORM KILLERS, LAWN SAND, DISINFECTANTS, SUPERFINE LYSOL, WARBLE SMEAR,** Let us quote you for your requirements.
BATTLE, HAYWARD & BOWER, Victoria Chemical Works, LINCOLN.

TOMLINSON & HAYWARD LIMITED

51 NEWLAND, LINCOLN (Only Address)

For over 50 years have supplied Chemists with

SEED DRESSINGS

packed under their own names, necessary advertising matter, etc. Tried Formulas.

BEST VALUE AND PACKAGES.

SULPHATE OF COPPER LIQUID SEED DRESSING FORMALIN, &c.

Continuous and Steadily Advertised Goods
FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Price (Protected).	Net Wholesale Price
Virus for Rats and Mice, single tube 2/- 3 tubes, 5/-	15/- per doz.
Virus for Mice only - - single tube 1/6 3 tubes, 3/-	9/- ..

Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price.	Wholesale Price
Quart Bottles 6/- each	4/6 each
Pint " 4/6 "	3/9 "

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or 33½% cash with order.

	Retail	Monthly a/c	Cash with Order
½ gall. tins ..	10/- ..	7/6 ..	6/8 ..
1 " ..	18/- ..	13/6 ..	12/- ..
5 " ..	80/- ..	60/- ..	53/4 ..

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, &c.
Retail Prices (Protected).
In tins 3d. Wholesale prices per doz.
" 6d. In boxes of 2 doz. 2/1
" 1/- " " 1 " 3/8
" 2/6 " " 1 " 7/3
" Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS.

To be obtained from

HALLER LABORATORIES, LTD.
325 Borough High Street, LONDON, S.E.1
Telegrams: "Virudana, Sedist, London." Telephone: Hop 2717

**THEY catch flies
YOU catch profits**



- THE WORLD'S BEST FLY-CATCHER

The Wasp Flyband way is the quickest, surest and most hygienic way of destroying flies. Every customer satisfied. Stock always fresh and saleable. Profits good and brisk. Order your supplies NOW.

Manufactured by
F. W. HAMPSHIRE & CO. (1927), LTD.
SUNNYDALE WORKS - DERBY

Only 9 square ins. of counter space are taken up by this display container, yet Pharmacists repeatedly tell us that it is a more effective sales-maker than a large window display of preparations.

This Display Container

holds 100 copies of a very informative folder which shows dog owners how to keep their dogs free from overheating troubles. One third of your customers are dog owners and will be grateful to you for a copy. Your sales of dog preparations will increase *immediately*. Your customers will buy dog medicines *regularly* and will use them more intelligently. Please advise us if we may send you a container and folders. A showcard, reproducing a painting by Arthur Wardle, will be included in the parcel.



BOB MARTIN LIMITED
Dog Medicine Manufacturers Since 1892. SOUTHPORT, ENGLAND

For 18/4

you can obtain a good range of the quick-selling Bob Martin dog preparations. The retail value of this parcel is £1 - 7 - 0 and it includes the folders and the showcard referred to on left, a three-piece screen and dummy display outers.

HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair-Restoring Ointment.
Edos, or Tasteless Purging Powder.

HARVEY'S

Great

Protected Prices
(P.A.T.A.)

Remedies for the Horse



HARVEY'S

Koppes Powder.
Parasiticide.
Thrush Specific.
Hoof Ointment.
Skin Specific for Dogs.

Of all the leading Druggists' Sundries Houses
HARVEY & COMPANY, Ltd., Dublin

CELLOPHANE

The ideal transparent wrapping absolutely harmless, air and grease proof, as used by all the leading Perfumers, Soap Manufacturers, etc., etc., for wrapping Soaps, Drugs, Tablets, Bath Crystals, Perfumery, Surgical Dressings, Sponges, Puffs, Soothers, Tooth Brushes and all Articles of Toilet.

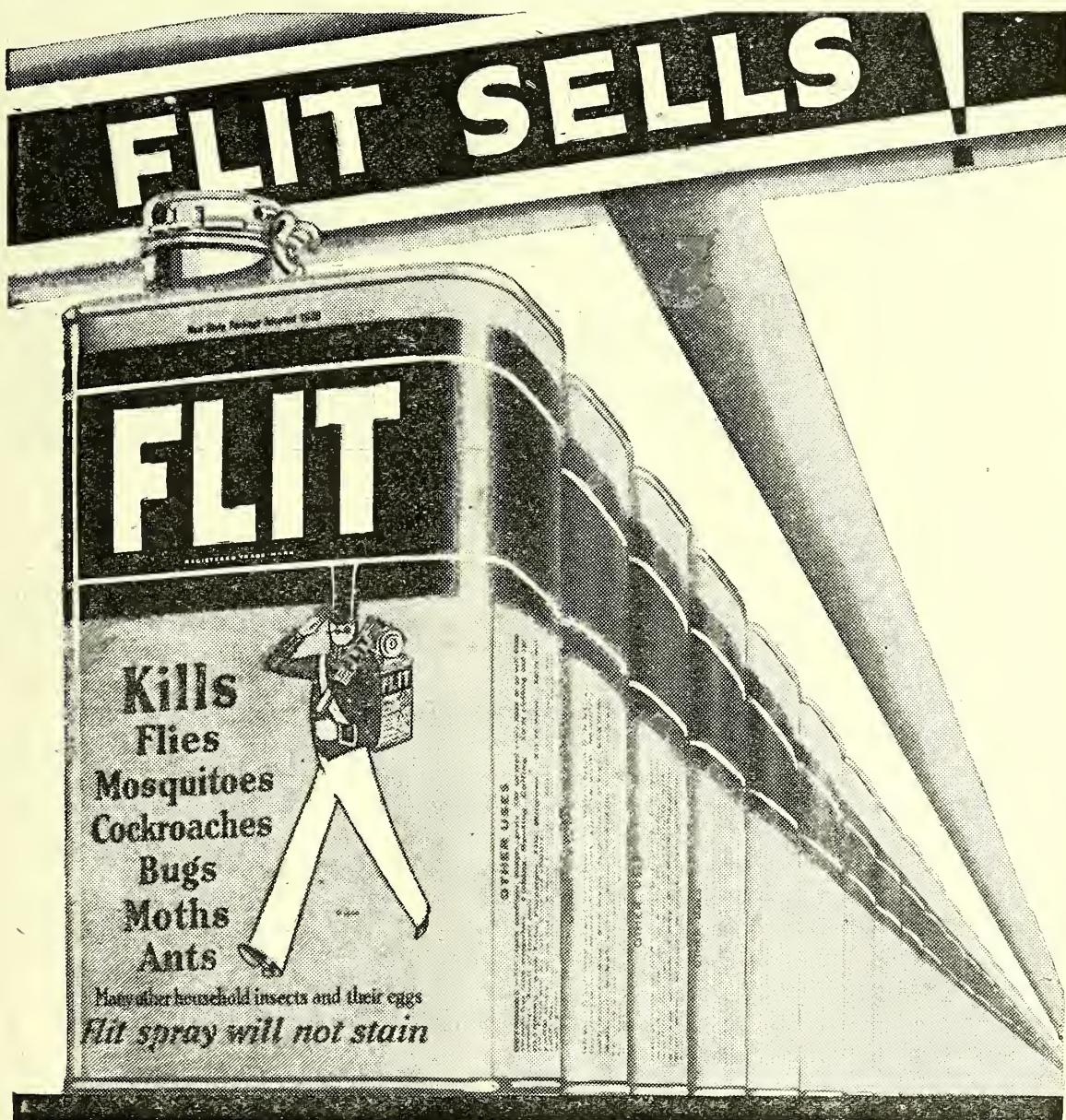
Cellophane can be had in sheets, all sizes and colours; also in the shape of **Bags, Discs, Envelopes**, printed or not, allowing the contents to be seen by transparency.

Cellophane wrapped goods look better—keep better—sell better.

Cellophane protects, beautifies, and adds the quality touch.

Prices, Samples and Particulars from
THE CELLOPHANE COMPANY LTD.
7, 8 and 9 Bird Street, LONDON, W.1

Also 305-7 PRODUCE EXCHANGE, MANCHESTER
35 MILLER STREET, GLASGOW



Flit, the established insecticide, the modern weapon against all insect pests, sells well, sells better year after year. Gaining in public favour by its own quality, gaining in popularity by the impetus of extensive advertising. Flit

in your window means Flit moving steadily and rapidly from your shelves, building up quick profits and, more than that, building up goodwill by assured satisfaction because Flit kills quicker, that is why Flit sells!

FLIT

Flit Dept., 128, Albert Street, Camden Town, N.W.1. Telephone: Hampstead 3066.



SELO THANKS

The Summer Sales of
'Seló' have been absolutely
phenomenal!

To a very great extent
this result was due to
the wonderful co-operation
of the Trade!

Gentlemen I salute you!
Thank you very much.

SELO
The fast
FILM

SELO ADVERTISING DEPT.
134 St. Albans Road,
WATFORD, HERTS

THE CHEMIST AND DRUGGIST



SUPPLEMENT

28 ESSEX ST.
LONDON, W.C.2

AUGUST 30, 1930

This Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case the name and full postal address should be written on

Post Office Wrappers, Stamped ONE PENNY, to ensure prompt delivery.

If wrappers bear a halfpenny stamp only, postal delivery is delayed.

Loose stamps will not be accepted.

CLOSING FOR PRESS.

MUST REACH US
NOT LATER THAN

FIRST POST THURSDAY MORNING.

ALL ADVERTISEMENTS INTENDED FOR
INSERTION IN THIS SUPPLEMENT

CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.
Telephone No.: CITY 2283;

May be consulted at their Offices on matters of Sale, Purchase and Valuation

1.—CITY BUSINESS.—Retail and Dispensing, with Kodak Agency, situated in commanding position; returns last year £3,256; audited books; double-fronted shop, well fitted in oak and heavily stocked; rent £200; held on lease; price £2,500.

2.—UPPER NORWOOD.—General Retail Business, with Photographic and small N.H.I.; returns last year £1,755, increasing; gross profit about 35 per cent.; double-fronted, modern shop, well fitted and stocked; pleasant surroundings; two rooms over shop; rent £125; 19 years' lease; price £1,150.

3.—WEST LONDON SUBURB.—Good middle-class Retail and Dispensing Business, with N.H.I. increasing; Kodak and Ucal Agencies; returns average £27 weekly, with net profit over 25 per cent.; double-fronted shop; modern fittings; stock worth about £400; modern house, with garage; long lease; rent £120; price £750, or valuation terms entertained.

4.—LONDON, S.W.—Good-class Dispensing and Retail Business, with Kodak Agency; returns exceed £1,400, with net profit £450; double-fronted shop; corner position; scope for increase under more modern management; excellent house and garden; rent £60 per annum; lease 14 years; mahogany fittings; price asked £1,250, or valuation of stock and fixtures, plus an agreed sum for lease and goodwill.

5.—ESSEX (Few Miles Out).—General Retail and Dispensing Business; returns last year £1,350; the concern is neglected and lends itself to improvement under more energetic management, and with the addition of capital; good living accommodation; new lease will be granted; price £600.

6.—EPPING FOREST (Near).—Retail and Dispensing Business with N.H.I. and Kodak Agency; scope for Optics; returns last year £1,350; good house; long lease; low rent; price £625.

7.—ALDGATE (Near).—Quick Cash Retail Business, with N.H.I. Dispensing and Kodak Agency, situated in busy main road; established 68 years; returns last year approximately £4,500; good profits; large double-fronted shop, well fitted and heavily stocked; living accommodation; bathroom; rent £180; long lease; price £3,100.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the Value of Business, &c., can be determined. Involving as this does the labour of stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

8.—BRISTOL (Near).—Good-class Retail and Dispensing Business; present returns about £1,300 per annum; scope for increase by the addition of side lines, N.H.I. and photography; lease will be granted at £80 per annum; large house; vendor will consider valuation of stock, plus an agreed sum for goodwill and fixtures; stock worth about £400.

9.—GLAMORGAN.—General Retail and Dispensing Business, with N.H.I. and Wine Licence; returns average over £2,000 per annum with gross profit 38 per cent., to 40 per cent.; rent £40; rated on £30; 18 years' lease; living accommodation; terms, valuation of stock and fixtures, plus £500 for goodwill; amount of stock taken optional.

10.—SUSSEX (Seaside).—Good-class Retail and Dispensing Business; returns average £30 weekly, with scope for increase; well-fitted shop, amply stocked; rent £110; rates £26; sublet £65; 15 years' lease; main-road position, unopposed; price £1,050 or offer.

11.—BIRMINGHAM.—Neglected Retail and Dispensing Business, with Kodak Agency; established a century; returns present rate £25 weekly; has done £45; main-road position; stock and fixtures worth £800; new lease will be granted at a rental of £100 per annum; good house; price £950.

12.—YORKSHIRE.—Working-class Business, with Kodak Agency; returns exceed £900 per annum, under the management of a lady; single-fronted shop, well fitted and stocked; rent 12s. 11d. weekly inclusive; price £550, or valuation terms entertained.

13.—SURREY.—High-class Dispensing and Retail Business, with Kodak Agency; established many years; returns, under management, approach £2,300; stock and fixtures estimated to be worth £1,100; rent £70 per annum; sublet £52; held on lease, or property may be purchased; valuation terms entertained.

14.—BRIGHTON.—Good-class Retail and Dispensing Business; returns exceed £2,850; gross profit approximately £1,200; double-fronted shop, well fitted and stocked; extremely good house, which can be sublet to cover the whole of rent if so desired; long lease; price to be arranged; this business offers scope for increase under more modern management.

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1. CENTRAL BIRMINGHAM.—High class retail business, situated in busy thoroughfare; turnover, £1,500; price required, £900 (no goodwill included); lease, 19 years to run; remarkable opportunity for extension and development by keen, energetic man.

2. BIRMINGHAM.—Large retail pharmacist's business; centre of City; turnover, £2,500; purchase price, £650; lease, 10½ years unexpired.

3. BLACKPOOL.—High class retail business; owner wishing to retire desires quick sale; undoubtedly bargain; situated near sea front; stock and fixtures (at valuation); nominal sum only required for goodwill; every opportunity for extension by purchaser possessing ambition and initiative, and not afraid of hard work; present returns exceed £2,000; living accommodation if desired, or can be sub-let as at present.

4. BLACKPOOL.—High class retail business, well situated; not dependent on seasonal trade; average returns for past four years approximately £2,100; net profit, £540; rent, £78; lease, 12½ years unexpired; living accommodation; purchase price, £1,050 approx. (Stock and fittings at valuation.)

5. LARGE RETAIL PHARMACY.—Situated in main street of Midland town; particularly extensive accommodation and every opportunity for development; present turnover, £2,500 (excluding D. & P. returns), but ample scope for doubling this figure; opportunity for Optical work if desired; total purchase price, £1,950, or near offer (including D. & P. equipment, which cost over £600).

6. WILTS. BUSY TOWN.—Exceptional opportunity to purchase business situated in busy shopping centre and near to local housing estate; owner desirous of selling owing to other interests which prevent personal management; purchase price to comprise stock and fittings (at valuation) only; rent, £50 per annum; lease to suit purchaser, or property can be acquired reasonably; living accommodation (8 rooms); opportunity for Optics; N.H.I. dispensing.

7. LONDON, E.C.—Retail business admirably situated in very busy thoroughfare; average turnover for past three years, £3,300 per annum; no near opposition, and it is estimated that 28,000 people pass the shop daily; £2,500 required, including stock and fixtures, estimated at about £1,150.

8. BOURNEMOUTH DISTRICT.—Returns for twelve months to June, 1930, £1,450, and increasing steadily; N.H.I. dispensing; extensive street improvements now in process will undoubtedly augment turnover; long lease would probably be granted to good tenant; purchase price required £250, plus stock and fixtures at valuation; excellent opportunity.

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2.—NORTH-WEST COAST.—High-class Retail and Dispensing with Kodak Agency; returns £3,250; net profit £700; good modern house; well fitted and fully stocked; price £2,000 or near offer.

3.—MIDDLESEX (Few Miles Out).—Good-class Family Retail and Dispensing, with Kodak Agency; returns over £2,400; gross profits exceed £1,000; audited accounts; excellent house, garage, etc.; owner retiring; price £2,000.

4.—EAST COAST.—High-class Business, with Confectionery; no Dispensing or Photographic; returns exceed £2,400; stands to do easily £3,000; excellent shop, in main business street; good house with nice garden; owner retiring; price £2,000.

5.—SUSSEX COAST.—Sound progressive Business in busy main road; central position; returns average over £30 weekly, increasing; living accommodation available; stock and fixtures worth £700; price £1,050, or offer.

6.—NOTTS.—Old-established Country Retail; no N.H.I.; returns average £1,200; nearest opposition 5 miles; 8-roomed house, on lease; owner having purchased a business on South Coast, will accept valuation of stock and fixtures, about £500, or will reduce stock to suit purchaser with £250 capital.

7.—HARROW.—Modern good-class Business; returns £20 a week, under manager; scope for much increase; well fitted and stocked; good house; long lease; price, value of stock and fixtures, about £750.

8.—LONDON (Essex Suburb).—Light Cash Retail, in main shopping centre; returns £1,300; net profit about £300; good house; stock and fixtures worth £550; price £625.

9.—WEST LONDON.—Old-established Drug Stores, same hands many years; retiring; returns over £700; net profit £211; low rent; house attached; price £350.

10.—LONDON, W.C.—General Cash Retail, with Photo, very few Patents; returns £40 a week; net profit £650; audited figures; modern double-fronted shop; beautifully fitted; stock guaranteed £800; price £1,800.

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2.—LONDON, N.7.—Old-established Optical Business, combining recently established Pharmacy, held on lease with 14 years to run at a rental of £250 p.a., of which £135 is let on lease; returns £28 per week; very large shop, dispensary and sight-testing room, situated in busy main road; no opposition for some distance. Further particulars on application. (42)

3.—MANCHESTER.—Old-established Retail Business for quick disposal; yearly tenancy; rent £150; returns for the last 40 years average over £50 weekly; at present returns are £35 weekly; nicely fitted and good stock; Wine and Spirit Licence; living accommodation. (48)

4.—BERKS.—Old-established Middle-class Retail and Dispensing Business for immediate disposal; returns £1,500; double-fronted shop, well fitted in mahogany; rent £72 per annum; let off £104 per annum; excellent opening for Optics; vendor's private residence is available on lease; strongly recommended. (19)

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6.—LINCS.—Established Dispensing and Retail Business for quick Disposal in important town; 17½ years' lease to run at £200 per annum; returns average £50 per week; very large shop, situated in main thoroughfare; specially recommended.

7.—BIRMINGHAM.—General Retail and Dispensing Business, situated in main busy road, for quick disposal; approximate returns £25 per week; double-fronted shop and seven-roomed house over; lease will be granted at £100 per annum; house above could be let at £78 per annum; price for lease, goodwill, fixtures and utensils £450; stock approximately £500. (49)

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ORGANOTHERAPEUTIC PREPARATIONS.—Sole Representative for the British Empire wanted by well-known Danish factory for the sale of its highly reputed Organotherapy Preparations; the factory is able to deliver dried glands as well as finished and half finished goods. Write B. 2557, c/o Wolffs Box, Copenhagen, K.

WHOLESALE firm wishes Agency for Scotland of suitable advertised lines other than toilet soaps. 175/236, Office of this Paper.

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GENTLEMAN, unqualified, aged 34, will give services and £100 to £200 capital in extending existing Pharmacy or similar proposition where prospects are good. "E. M." 58 Rosslyn Road, Shoreham-by-Sea, Sussex.

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F REEHOLD Property in Daventry for Sale, with vacant possession, containing shop eminently suitable for Pharmacy, two living rooms, four bedrooms, kitchen, scullery, bathroom (h. and c.), conservatory and outbuildings. Apply Dennis Faulkner & Alsop, Solicitors, Daventry.

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A REALLY genuine opportunity for good business without competition in important thoroughfare, South Croydon; excellent lock-up shop suitable for Chemist; rent £85 per annum, rising after 3 years to £100 (exclusive). Write for further details to A. M. Capthorne, Architect, 54 Victoria Street, S.W.1. Telephone: 0062 Victoria.

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H ANTS COAST (not Bournemouth).—Cash Business, with house attached, for disposal; annual returns £4,000 (last three years); good Photographic and Toilet trade; very little N.H.I. (could be encouraged); Kodak and Rexall Agencies; shop large, well fitted and stocked; central position; opening for Optics; every opportunity for increasing business; rent £200, rates £35; lease 21 years; price £3,000; no offers. 214/13, Office of this Paper.

L ONDON, E.—An old-established Branch Pharmacy; large Panel; no opposition; suit young man not afraid of work; house attached; side entrance; 14 years' lease; rent £60; price £800; part could remain if secured. 215/14, Office of this Paper.

L ONDON, S.W.—General Retail; scope for increase all round; returns £1,200; net profit £340; rent £65 per annum; sub-let £78; vendor, who is obliged to leave business through ill-health, will accept low price for quick sale; splendid chance for man with small capital; particulars at interview. 215/6, Office of this Paper.

L ONDON, W.—Small middle-class Business; large Photo, D. & P., and Toilets; small Dispensing; suit qualified or unqualified; rent £55; lock-up shop; takings about £300 week; owner has other shops, and would sell at low price, lost value of stock and fixtures, about £650. Reply "X," 214/230, Office of this Paper.

L ONDON SUBURB.—Dispensing, Photographic, etc.; double-fronted roomy shop, with good living accommodation; long lease at reasonable rent; net profits about £450 per annum; price, including large stock, £950. Preston & Partners, Valuers, 29 Ludgate Hill, E.C.

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T YNESIDE.—Well-fitted Branch Pharmacy; complete working stock; low rent; capable expansion under personal supervision; banker's reference. Apply 212/29, Office of this Paper.

W EST COAST.—All cash; well fitted and stocked; good house above; main road; stock and fixtures at valuation; good will to be agreed. 211/39, Office of this Paper.

C HEMIST and Druggist; main road; busy shopping centre; near station and bus terminus; under management; good scope for owner; Surrey marketing town; no opposition. 215/20, Office of this Paper.

D RUG Store, lock-up, with one room; busy main road; bold corner position; good windows; returns £9 to £10 weekly; good scope; moderate inclusive rent; agreement; price £65 and stock at valuation (£25 to £30), or offer; genuine bargain; only wants seeing. 213/39, Office of this Paper.

F OR Sale, Clacton-on-Sea. Drug Stores, at present taking £10 per week; good scope for qualified man; house can be had on mortgage; over £100 paid off; good reasons for selling; price inclusive £200, or near offer. 27 Thomas Road.

LIIGHT Cash Retail, with Kodak Agency and N.H.I.; well fitted and stocked pharmacy on main road in large Midland city; returns £15 per week, increasing; residential district; good house, with gas, electric, etc.; lease 8 years at £49 per annum; will accept £275 or close offer, or alternate valuation stock and fittings, plus £50. 214/37, Office of this Paper.

NET income over £330; turnover £1,200; rent £50; rates £5; Country Pharmacy; lock-up; unopposed 4 miles; Kodak, Ucal, N.H.I.; good D. & P.; profitable Proprietary, sales 4 gross yearly; lease 8 years; stock and fixtures £530, about; price £650. "Chemicus," 215/25, Office of this Paper.

OLD-ESTABLISHED provincial, high-class, with Kodak; large D. & P.; increasing turnover; approximately £2,500; confidential; buyers cash only. Apply 210/34, Office of this Paper.

£300, to include stock, fittings, goodwill, etc., buys an old-established Country Business, 6 miles from nearest opposition, Newark, doing over £1,200; rent and rates about £60; to be sold at once; Kodak Agency; Wines; good house, shop and outbuildings; a golden opportunity to obtain a good business at an absurdly low price; immediate possession if required. Apply 215/32, Office of this Paper.

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CLEVEDON (SOM.)—September 30, Junior Assistant for Dispensing and Counter in good-class Dispensing business. Particulars at to experience, height, salary (outdoors), etc., to J. H. Shepherd, Pharmaceutical Chemist, 16 Hill Road, Clevedon.

HAMPSTEAD.—Assistant, unqualified, for high-class Dispensing business, chiefly Dispensing, with some Counter, commencing September; preference given to one used to similar business. Applicants not answered in four days declined. Write, stating full particulars, salary, etc., to 212/25, Office of this Paper.

LANCASTER.—Qualified Assistant required; Dispensing and Counter; knowledge of Photography. Full particulars and salary required, A. D. Fox, Chemist, 81 Ulleswater Road, Lancaster.

LONDON, E.—Qualified Manager wanted immediately; must be a really smart man, not afraid of work, with previous experience in quick cash industrial business with large N.H.I.; liberal salary and commission to the right man; good house attached. State age, salary, when free, and previous experience to 214/35, Office of this Paper.

LONDON, E.—Unqualified Assistant, about 25, wanted, mid-September; must be experienced in quick cash business, with large N.H.I.; progressive to the right man. Send full particulars, age, experience and salary required; photo if not in London. 214/350, Office of this Paper.

LONDON, S.E.—Qualified man wanted for Light Retail middle-class business. Please state age, wages required, when free, and usual particulars to 215/22, Office of this Paper.

LONDON, W.—Qualified Manager for good-class Dispensing business; permanency; commencing salary 5 guineas. 212/22, Office of this Paper.

LONDON, W.C.—Junior Assistant wanted; male; outdoors; Dispensing and General business. Apply, by letter only, Russell Jacks, 161 Gower Street, W.C.

LONDON, W.1.—Qualified Assistant (male) wanted immediately for West-End Dispensing Pharmacy; some previous West-End experience preferred. Please give full particulars, more especially where dispensing experience was gained, when at liberty, and when available for interview. 196/4, Office of this Paper.

LONDON, S.W.—Part-time relief; qualified; experienced, Counter and Dispensing; each Thursday and alternate Sunday, 6 till 7.30. State experience and salary. "X." 214/23, Office of this Paper.

SOUTH DEVON COAST.—Wanted, capable, unqualified Junior Assistant (single) for high-class general business, including Photographic and Toilet Goods Department. Apply, with full particulars, references, and salary required (outdoors) to 216/10, Office of this Paper.

CAPABLE Assistant required immediately; good Dispenser and Window-dresser; unmarried; young, qualified man preferred; permanency in neighbourhood of Norwich. Particulars as to salary required and previous experience to 215/12, Office of this Paper.

COMPANY has vacancy for qualified man in Essex, 55 miles from London; must be good Salesman and Window-dresser. State experience, age, wages expected, single or married. All applications to be accompanied with a photo if possible. Apply 215/1, Office of this Paper.

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JUNIOR Assistant required September 29; unqualified; male; must be quick and accurate Dispenser, good Window-dresser and obliging at Counter. Salary required and full particulars to Mr. Smith, Bedford Drug Co., Bedford. Applications not answered in three days respectfully declined.

JUNIOR Assistant, male, wanted for High Street, Witham, and Assistant wanted for High Street, Brentwood; vacancies free for September 23. State age, experience, references, photo if possible, and salary required, to T. Bellamy, Pharmaceutical Chemist, Tindal Square, Chelmsford.

LADY, qualified, for Dispensing and Counter; short hours. Full particulars to Robert Dawkes, Ltd., 17 Horn Lane, Acton, W.3.

LADY Assistant or Improver wanted, end of September; no dispensing, but good Packer and Saleswoman; working-class district. Please send photo and give details of experience, age and salary required. Bustard, 173 St. Ann's Road, South Tattenham, N.15.

LADY Assistant, not under 26, to manage branch shop in South Coast town; used to working-class trade. Write full particulars as to experience, etc., giving copies of references, to "S." 212/2, Office of this Paper.

LADY Assistant, young, unqualified, required for good-class country business; Dispensing experience essential; comfortable post. Apply, stating age and wages, enclose references and photo, 213/25, Office of this Paper.

LOCUM, qualified, wanted as Superintendent, London, N.W., for two weeks, commencing September 15; easy post; suit elderly Chemist. State age, wages, references, etc. 214/28, Office of this Paper.

LOCUM, qualified, male, wanted to take charge, September 16 to 30 inclusive. Please send fullest particulars first letter to Harry Stephens, Ltd., Chemists, Ridgeway, Plympton, Devon.

MANAGER wanted for new branch shop in London suburb; salary £5 per week, plus commission; flat available if required, must be good all-round man and willing to take a minimum of £100 shares in the company; permanency for the right man. 213/5, Office of this Paper.

OPTICIAN required to take charge of department attached to Chemists' business in Margate; applicants must possess initiative, be painstaking, and have a knowledge of pharmacy. State age, height, wage required, and when at liberty. 213/12, Office of this Paper.

PART-TIME, unqualified Assistant for evenings, Saturdays and alternate Sunday duties; capable Dispenser necessary. Bird & Storey, 42 Eastcastle Street, W.1.

QUALIFIED Chemist-Optician, J.C.Q.O., to manage branch; commence duties September 8. W. Osmond Morris, 37 Woodcote Road, Wallington. Phone 1075.

QUALIFIED Manager, age 30 to 40, for N.E. London suburb; active and capable business man; used to sole charge; outdoor; salary and commission; undeniable references essential. 213/13, Office of this Paper.

QUALIFIED Chemist and Optician required as Manager; London district; applicants must have sound, practical experience in both departments. Apply, stating terms and qualifications, to 175/238, Office of this Paper.

REQUIRED by September 9, in N.E. district of London, qualified Chemist to assist and superintend Insurance Dispensing; age not to exceed 65; salary not beyond £3 per week. 213/20, Office of this Paper.

UNQUALIFIED Assistant; used to good-class business; capable Dispenser and able to dress Windows. Apply, with full particulars, stating when disengaged and salary required, to S. G. Court, 32 Harbour Street, Whitstable, Kent.

UNQUALIFIED Locum required, principally as Dispenser, for middle two weeks of September 8-20 inclusive; quick N.H.I. business; London, S.E. district. Apply 214/27, Office of this Paper.

WANTED, for two weeks early September, qualified Locum for high-class Dispensing business; must live out. Write full particulars. Apply E. Bowen Morgan, Chemist, 25 Windmill Hill, Enfield Chase, Middlesex.

WANTED, fully qualified Assistant, young, permanently, for small business in London area; must have good experience in D. & E., also be an accurate Dispenser in N.H.I. prescriptions. Apply, by letter only, giving previous experience, references, and salary asked, to J. Thomas, 198 Francis Road, Leyton, E.10.

WANTED soon, gentlemanly Assistant, qualified, with good experience of first-class business. State full particulars in first letter, with photo if possible. Applications not replied to within three days respectfully declined. Steele & Marsh, Chemists, 6 Milsom Street, Bath.

YOUNG Qualified Assistant required at once; North London; temporary or permanent. Please give fullest particulars, salary expected, to 175/239, Office of this Paper.

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TRAVELLER, calling on Chemists, wanted for London, on commission basis, to offer as side line competitive range of Toilet Soaps, etc.; high commission. Apply to 213/33, Office of this Paper.

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RHODESIA.—Applications are invited from young, qualified Chemists (male) for vacancy in a Rhodesian Pharmacy; one trained in a country business with an Optical qualification preferred; healthy climate. Full particulars to "M. L. D." c/o United Drug Co., Ltd., Nottingham.

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A.A.A.—SMART, qualified, 28, 12 years' London, American and Continental experience, desires position as Manager or Senior; all-round ability; good appearance; fluent French; London only. 213/37, Office of this Paper.

A.A.—ASSISTANT, unqualified, age 24, first-class experience, Counter, Dispensing, Photographic, desires post; London or near; disengaged. 214/19, Office of this Paper.

ACAPABLE Assistant requires post; permanency; thorough knowledge Dispensing, Counter and Photography; used high-class trade; Midlands preferred; age 22. Hartland, 24 Parade, Leamington Spa.

AQUALIFIED lady; experienced; Dispensing, N.H.I., Counter, Windows, Buying; can take full charge; London or Manchester. 213/18, Office of this Paper.

A.—YOUNG, qualified Scot desires post as Branch Manager or Assistant; medium class trade; heavy N.H.I.; London experience; keen and capable worker; disengaged soon. Apply "Chemist," 31 Broseley Grove, Sydenham.

ALERT Assistant (referred one subject Part II) requires berth (London); Locum or permanent; experience good; references excellent; free September 21. "H. H. G." 52 Dynham Road, N.W.6.

AN unqualified Assistant; 20; 5 ft. 9 in.; completed 4 years' apprenticeship; smart appearance; keen and reliable worker; excellent Counterman; good Window-dresser; all-round Dispensing and Photographic experience; Lancashire preferred, but not essential; commence October 6. Taylor, 49 Alhert Road, Morecambe.

AFTER September 16; qualified; reliable; middle-aged; any kind of work. 215/13, Office of this Paper.

AS Manager; qualified Pharmacist, F.S.M.C., F.B.O.A. (Hons.), registered J.C.Q.O.; wide experience; used to staff control; keen, capable, trustworthy; permanent or temporary. "Spes," 17 Gratwick Road, Worthing.

AS Manager or Assistant; Minor qualification; married; abstainer; keen; energetic; conscientious; good experience; country town or seaside preferred. 215/7, Office of this Paper.

ASSISTANT, 25, unqualified, desires position; Eastern County preference; good all-round experience; disengaged 3 weeks from engagement. "C. F." 213/10, Office of this Paper.

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